	STATE OF UTAH												
	DEPARTMENT OF NATURAL RESOURCES AMENDED REPORT DIVISION OF OIL, GAS AND MINING												
	APPLICATION FOR PERMIT TO DRILL							1. WELL NAME and NUMBER RW 5C1-23B					
2. TYPE (OF WORK	DRILL NEW WE	:LL 📵	REENTER	P&A V	VELL DEEPEN W	ÆLL		3. FIELD OR WILDCAT RED WASH				
4. TYPE (I. TYPE OF WELL Gas Well Coalbed Methane Well: NO						5. UNIT or COMMUNI	TIZATION A		NT NAM	E		
6. NAME	OF OPERATO	र		QEP ENER	RGY CO	OMPANY			7. OPERATOR PHONE	303 308-	3068		
8. ADDRE	SS OF OPERA	TOR	11002 Ea	st 17500 S	South,	Vernal, Ut, 84078			9. OPERATOR E-MAII debbi	_ e.stanberry	@qepres.c	om	
	RAL LEASE NU L, INDIAN, OR				11	1. MINERAL OWNERSH FEDERAL (INDIA	- C) FEE ()	12. SURFACE OWNER FEDERAL IN	SHIP DIAN	STATE () FE	E()
13. NAM	OF SURFAC	E OWNER (if box	12 = 'fee')						14. SURFACE OWNER	R PHONE (i	f box 12	'fee')	
15. ADDF	ESS OF SURF	ACE OWNER (if	oox 12 = 'fe	ee')					16. SURFACE OWNE	R E-MAIL (i	f box 12 =	: 'fee')	
		OR TRIBE NAME				B. INTEND TO COMMIN		N FROM	19. SLANT	77			
(II box 1	2 = 'INDIAN')					YES (Submit Co	mmingling Applicati	ion) NO 📵	VERTICAL DI	RECTIONAL	📵 но	RIZONT	AL 🔵
20. LOC	ATION OF WE	LL			F001	rages	QTR-QTR	SECTION	TOWNSHIP	RAN	IGE	МЕ	RIDIAN
LOCATI	ON AT SURFA	CE		1759	FSL	2106 FWL	NESW	23	7.0 \$	23.0	E		S
Top of U	Jppermost Pro	oducing Zone		2153	3 FNL	343 FWL	SWNW	23	7.0 S	23.0) E		S
At Tota				2153		343 FWL	SWNW	23	7.0 S	23.0		S	
21. COUI	NTY	UINTAH				2. DISTANCE TO NEAR	343		23. NUMBER OF ACR	1280			
						5. DISTANCE TO NEAR Applied For Drilling or		POOL	26. PROPOSED DEPT MD:		VD: 1113	5	
27. ELEV	ATION - GROU	5625			28	B. BOND NUMBER	ESB000024		29. SOURCE OF DRIL WATER RIGHTS APPR		BER IF AP	PLICABL	-E
String	Hole Size	Casing Size	Longs	h Wa	iaht	Hole, Casing,	and Cement Info	ormation	Cement		Sacks	Yield	Waight
String Surf	12.25	9.625	0 - 38		0.0	N-80 LT&C	0.0	Hallibur	on Light , Type Unk	nown	460	3.12	Weight 11.0
								Halliburto	n Premium , Type Ur	nknown	270	1.47	13.5
I1	8.5	4.5	0 - 64		1.6	HCP-110 LT&C	9.5		No Used		0	0.0	0.0
Prod	7.875	4.5	0 - 118	510 1	1.6	HCP-110 LT&C	10.5		on Light , Type Unki n Premium , Type Ur		680 590	3.18 1.65	11.0
						AT	TACHMENTS						
	VERIFY THE FOLLOWING ARE ATTACHED IN ACCORDANCE WITH THE UTAH OIL AND GAS CONSERVATION GENERAL RULES												
WELL PLAT OR MAP PREPARED BY LICENSED SURVEYOR OR ENGINEER						IPLETE DRILLING	PLAN						
AFFIDAVIT OF STATUS OF SURFACE OWNER AGREEMENT (IF FEE SURFACE)						FORM	FORM 5. IF OPERATOR IS OTHER THAN THE LEASE OWNER						
DIRECTIONAL SURVEY PLAN (IF DIRECTIONALLY OR HORIZONTALLY DRILLED)						№ торо	TOPOGRAPHICAL MAP						
NAME Valyn Davis TITLE Regulatory Affairs Analy					nalyst		PHONE 435 781-436	9					
SIGNATURE DATE 01/30/201					E 01/30/2012			EMAIL Valyn.Davis@q	epres.com				
	IBER ASSIGNE 04752312				APP	ROVAL		Pern	OGGILL nit Manager				

QEP Energy Company

RW 5C1-23B

Uintah County, Utah

SHL: 1759 FSL & 2106 FWL, Section 23, T7S, R23E BHL: 2153 FNL & 343 FWL, Section 23, T7S, R23E

DRILLING PROGRAM

ONSHORE OIL & GAS ORDER NO. 1 Approval of Operations on Onshore Federal Oil and Gas Leases

All lease and/or unit operations will be conducted in such a manner that full compliance is made with applicable laws, regulations (43 CFR 3100), Onshore Oil & Gas No. 1, and the approved plan of operations. The operator is fully responsible for the actions of its subcontractors. A copy of these conditions will be furnished the field representative to insure compliance.

1. <u>Formation Tops</u>

The estimated top of important geologic markers are as follows:

Formation Name	TVD (ft, RKB)	MD (ft, RKB)
Duchesne River/Uintah	0	0
Green River	2871	2984
Mahogany	3785	3785
Estimated Btm of Mod Saline Water	5516	5806
Wasatch	6116	6446
Mesaverde	8312	8687
Sego	10835	11210
TD	11135	11510

2. Anticipated Depths of Oil, Gas, Water, and Other Mineral Bearing Zones

The estimated depths at which the top of the anticipated water, oil, gas, or other mineral bearing formations are expected to be encountered as follows:

Formation Name (Substance)	Depth (ft, TVD)	Depth (ft, MD)
Green River (Oil)	2871	2984
Wasatch (Gas)	6116	6446
Mesaverde (Gas)	8312	8687
Sego (Gas)	10835	11210

All fresh water and prospectively valuable minerals encountered during drilling will be recorded by depth and adequately protected. All oil and gas shows will be tested to determine commercial potential.

RW 5C1-23B 8-Point Drilling Plan Page 1 of 9 Created: January 5, 2012

QEP Energy Company RW 5C1-23B

Uintah County, Utah

SHL: 1759 FSL & 2106 FWL, Section 23, T7S, R23E BHL: 2153 FNL & 343 FWL, Section 23, T7S, R23E

All water shows and water-bearing sands will be reported to the BLM in Vernal, Utah. Copies of State of Utah form OGC-8-X are acceptable. If flows are detected, samples will be submitted to the BLM along with any water analyses conducted. Fresh water will be obtained from Wonsits Valley water right A36125 (which was filed on May 7, 1964) or Red Wash water right # 49-2153 (which was filed on March 25, 1960). It was determined by the Fish and Wildlife Service that any water right number filed before 1989 is not depleting to the Upper Colorado River System, to supply fresh water for drilling purposes. All water resulting from drilling operations will be disposed of at LaPoint Recycling and Storage in Section 12, T5S R19E of Uintah County, UT or Red Wash Disposal site; SESE, Section 28, T7S, R23E or West End Disposal Site; NESE, Section 28, T7S, R22E.

3. Operator's Specification for Pressure Control Equipment

- A. An 11" 5000 psi double ram with blind rams and pipe rams, annular preventer and drilling spool or BOP with 2 side outlets.
- B. All BOP connections subject to pressure shall be flanged, welded or clamped.
- C. Kill line (2" min), 2 choke line valves (3" min), choke line (3" min), 2 kill line valves (2" min) and a check valve, 2 chokes with one remotely controlled from rig floor and a pressure gauge on choke manifold.
- D. Upper and Lower Kelly cock valves with handles and safety valve and subs to fit all drill string connections.
- E. IBOP or float sub available.
- F. Fill up line must be installed above the uppermost preventer.
- G. Ram type preventers and associated equipment shall be tested to approved stack working pressure if isolated by test plug or to 50 percent of internal yield pressure of casing whichever is less. BOP and related equipment shall meet the minimum requirements of Onshore Oil and Gas Order No. 2 for equipment and testing requirements, procedures, etc..., for a 5M system and individual components shall be operable as designed.

RW 5C1-23B 8-Point Drilling Plan Page 2 of 9 Created: January 5, 2012

QEP Energy Company

RW 5C1-23B

Uintah County, Utah

SHL: 1759 FSL & 2106 FWL, Section 23, T7S, R23E BHL: 2153 FNL & 343 FWL, Section 23, T7S, R23E

4. <u>Casing Design:</u>

Hole	Csg.	Top	Bottom	Wt.	Grade	Thread	Cond.	Expected
Size (in)	Size	(MD)	(MD)	(ppf)				MW(ppg)
22	16	Sfc	40	Steel	Conductor	None	Used	N/A
12.25	9.625	Sfc	3838	40	N-80	LTC	New	Air
8.5	4.5	Sfc	6446	11.6	HCP-110	LTC	New	9.5
7.875	4.5	Sfc	11510	11.6	HCP-110	LTC	New	10.5

Casing Strengths								
OD (in)	Wt (ppf)	Grade	Thread	Collapse (psi)	Burst (psi)	Tensile (kips, min)		
9.625	40	N-80	LTC	3090	5750	727		
4.5	11.6	HCP-110	LTC	8830	10710	279		

Casing Design Factors

*The casing prescribed above meets or exceeds the below listed design factors.

Burst: 1.2 Collapse: 1.2 Tension: 1.6

Maximum anticipated mud weight: 10.5 ppg Maximum anticipated surface treating pressure: 7,200 psi

5. <u>Cementing Program</u>

9-5/8" Surface Casing:

	Lead	<u>Tail</u>
Top of Slurry (ft, MD):	0	3000
Bottom of Slurry (ft, MD):	3000	3000
Weight (ppg):	11.0	13.5
Yeild (ft ³ /sk):	3.12	1.47
% Excess (Open Hole Only):	50%	50%
Volume (ft ³):	1410	394
Volume (Sacks):	460	270

RW 5C1-23B 8-Point Drilling Plan Page 3 of 9 Created: January 5, 2012

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QEP Energy Company

RW 5C1-23B

Uintah County, Utah

SHL: 1759 FSL & 2106 FWL, Section 23, T7S, R23E BHL: 2153 FNL & 343 FWL, Section 23, T7S, R23E

4-1/2" Production Casing*:

	Lead	<u>Tail</u>
Top of Slurry (ft, MD):	3000	8687
Bottom of Slurry (ft, MD):	8687	11510
Weight (ppg):	11.0	13.5
Yeild (ft ³ /sk):	3.18	1.65
% Excess (Open Hole Only):	50%	50%
Volume (ft ³):	2140	968
Volume (Sacks):	680	590

^{*}Final cement volumes to be calculated from caliper log, if run.

6. Auxiliary Equipment

- A. Kelly Cock yes
- B. Float at the bit Yes
- C. Monitoring equipment on the mud system PVT/Flow Show
- D. Full opening safety valve on the rig floor Yes
- E. Rotating Head Yes
- F. Request for Variance:

Drilling surface hole with air:

A variance from 43 CFR 3160 Onshore Oil and Gas Order #2, Section III Requirements, subsection E. Special Drilling Operations is requested for the specific operation of drilling and setting surface casing on the subject well with a truck mounted air rig. The variance from the following requirements of Order #2 is requested because surface casing depth for this well is 50' or deeper into the Mahogany Bench formation and high pressures are not expected.

- 1. **Properly lubricated and maintained rotating head** A diverter system in place of a rotating head. The diverter system forces the air and cutting returns to the reserve pit and is used to drill the surface casing.
- 2. **Blooie line discharge 100 feet from wellbore and securely anchored** the blooie line discharge for this operation will be located 50 to 70 feet from the wellhead. This reduced length is necessary due to the smaller location size to minimize surface disturbance.

RW 5C1-23B 8-Point Drilling Plan Page 4 of 9 Created: January 5, 2012

QEP Energy Company

RW 5C1-23B

Uintah County, Utah

SHL: 1759 FSL & 2106 FWL, Section 23, T7S, R23E BHL: 2153 FNL & 343 FWL, Section 23, T7S, R23E

- 3. Automatic igniter or continuous pilot light on blooie line a diffuser will be used rather than an automatic pilot/igniter. Water is injected into the compressed air and eliminates the need for a pilot light and the need for dust suppression equipment.
- 4. Compressors located in the opposite direction from the blooie line a minimum of 100 feet from the wellbore compressors located within 50 feet on the opposite side of the wellbore from the blooie line and is equipped with a 1) emergency kill switch on the driller's console, 2) pressure relief valves on the compressors, 3) spark arrestors on the motors.
- 5. Well Kill Fluid A suitable amount of water and weighting agents will be available in the reserve pit during air drilling operations to kill the well, if necessary. No overpressured zones are expected in the area.
- 6. **Deflector on the end of the blooie line** QEP will mount a deflector unit at the end of the blooie line for the purpose of changing the direction and velocity of the air and cuttings flow into the reserve pit. Changing the velocity and direction of the cuttings and air will preserve the pit liner. In the event the deflector washes out due to erosion caused by the sand blasting effect of the cuttings, there will be no problem because the deflector is mounted on the very end of the blooie. A washed out deflector will be easily replaced.
- 7. **Flare Pit** there will be no need of a flare pit during the surface hole air drilling operation because the blooic line is routed directly to the reserve pit. When the big rig arrives for the main drilling after setting surface casing, a flare box will be installed and all flare lines will be routed to the flare box.
- G. Drilling below the 9-5/8" casing will be done with water based mud. Maximum anticipated mud weight is 10.5 ppg.
- H. No minimum quantity of weight material will be required to be kept on location.
- I Gas detector will be used from intermediate casing depth to TD.

7. Testing logging and coring program

- A. Cores none.
- B. DST none anticipated
- C. Logging Mud logging Intermediate Casing to TD OH Logs: GR-SP-Induction, Neutron Density.
- D. Formation and Completion Interval:

RW 5C1-23B 8-Point Drilling Plan Page 5 of 9 Created: January 5, 2012

QEP Energy Company

RW 5C1-23B

Uintah County, Utah

SHL: 1759 FSL & 2106 FWL, Section 23, T7S, R23E BHL: 2153 FNL & 343 FWL, Section 23, T7S, R23E

- Stimulation will be designed for the particular area of interest as

encountered.

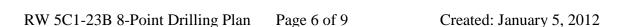
8. <u>Anticipated Abnormal Pressures and Temperatures, Other Potential</u> Hazards

No abnormal temperatures or pressures are anticipated.

Maximum anticipated bottom hole pressure (approx, psi): 6080

Maximum anticipated bottom hole temperature (approx, deg F): 210

H2S has not been encountered in other wells drilled to similar depths in the general area.



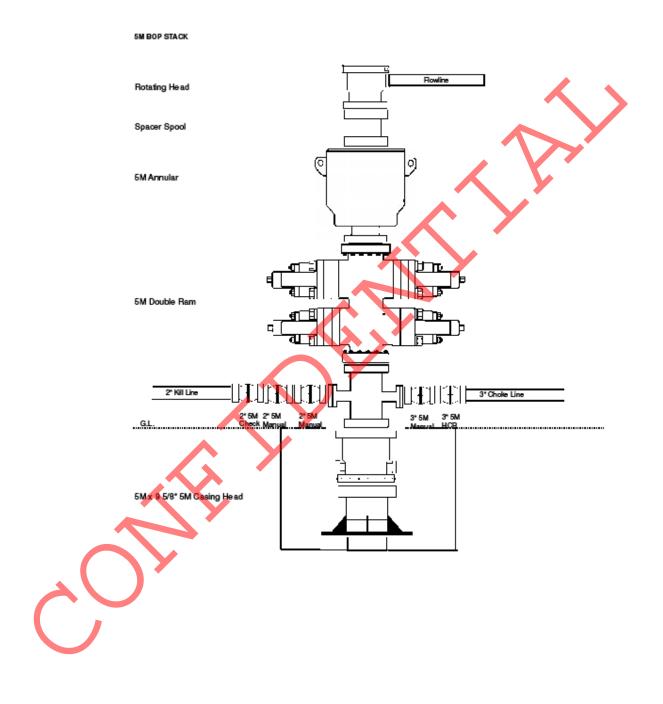
RECEIVED: January 30, 2012

QEP Energy Company

RW 5C1-23B

Uintah County, Utah

SHL: 1759 FSL & 2106 FWL, Section 23, T7S, R23E BHL: 2153 FNL & 343 FWL, Section 23, T7S, R23E

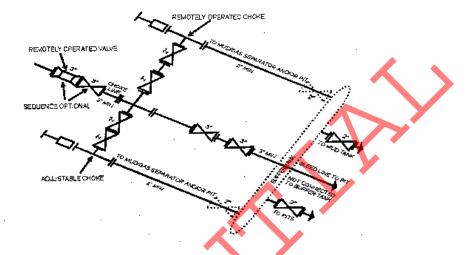


QEP Energy Company

RW 5C1-23B

Uintah County, Utah

SHL: 1759 FSL & 2106 FWL, Section 23, T7S, R23E BHL: 2153 FNL & 343 FWL, Section 23, T7S, R23E



5M CHOKE MANIFOLD EQUIPMENT - CONFIGURATION OF CHOKES MAY VARY

Although new required for any of the choke manifold systems, buffer tanks are sometimes integried drawstream of the choke assemblies for the purpose of guardialding the blood lines together. When buffer tanks are employed, valves shall be installed upstream to isolate a follower or malfamilion without interrupting flow control. Though not allows on 2013, 304, 1084, OR 1584 drawings, it would also be applicable to

[54 FR 39528, Sept. 27, 198]

Created: January 5, 2012

QEP Energy Company

RW 5C1-23B

Uintah County, Utah

SHL: 1759 FSL & 2106 FWL, Section 23, T7S, R23E BHL: 2153 FNL & 343 FWL, Section 23, T7S, R23E

WELLBORE DIAGRAM

General Information					
Pad	23-23B				
Pod	4				
Elevation, GL	5625				
Elevation, RKB	5641				

Geologic Prognosis					
<u>Formation</u>	TVD	MD			
Duchesne River/Uintah	0	0			
Green River	2871	2984			
Mahogany	3622	3785			
Est Btm of Mod Saline Water	5516	5806			
Wasatch	6116	6446			
Mesaverde	8312	8687			
Sego	10835	11210			
TD	11135	11510			

Hole Size	From (MD)	To (MD)
12.25	0	3838
8.5	3838	6446
7.875	6446	11510

Directional Information						
KOP:	500	ft				
Departure:	2230	ft				
Azimuth:	307.81	deg				

Casing Information							
Size	Wt	Grade	Connection	Depth (MD)			
9.625	40	N-80	LTC	3838			
4.5	11.6	HCP-110	LTC	11510			

Conductor Information						
Conductor set @	40					
Cemented to Surface						

Surface Cement								
•	Top (MD)	Wt	Volume					
		(ppg)	(Sacks)					
Lead	0	11	460					
Tail	3000	13.5	270					

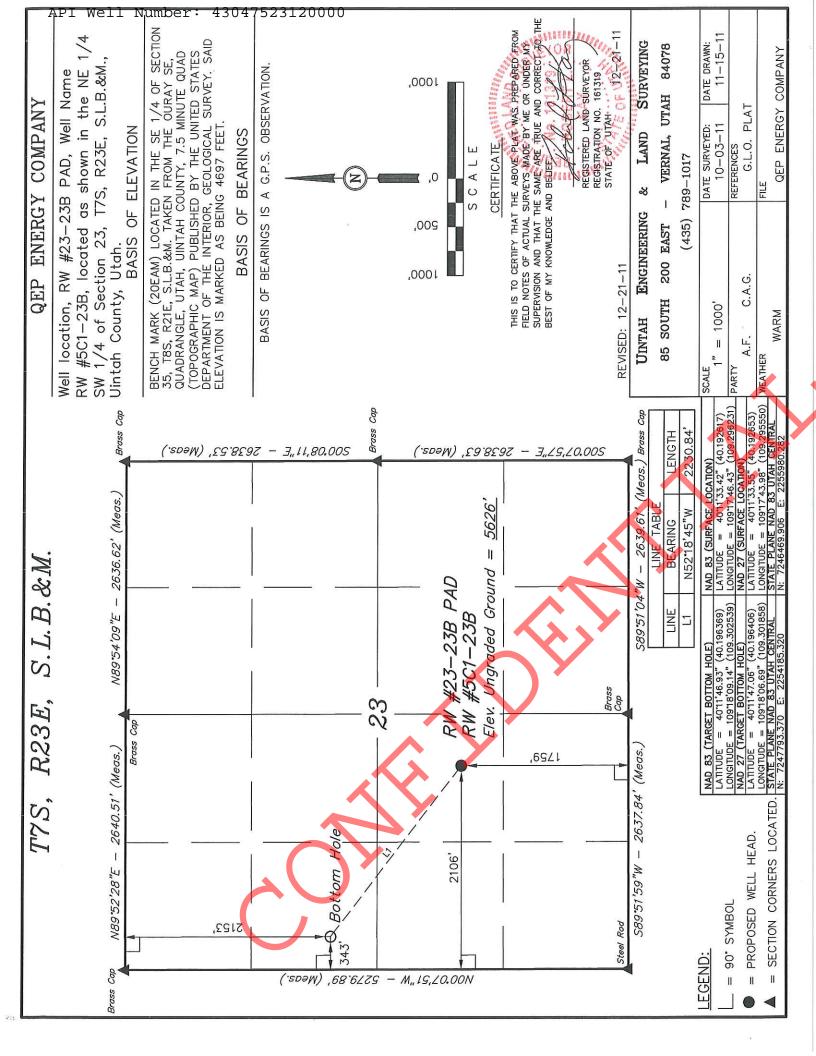
Production Cement								
Top (MD) Wt Volume								
		(ppg)	(Sacks)					
Lead	3000	11	680					
Tail	8687	13.5	590					

RW 5C1-23B 8-Point Drilling Plan

Page 9 of 9

RECEIVED: January 30, 2012

Created: January 5, 2012



QEP ENERGY COMPANY

RW #23-23B PAD

LOCATED IN UINTAH COUNTY, UTAH SECTION 23, T7S, R23E, S.L.B.&M.

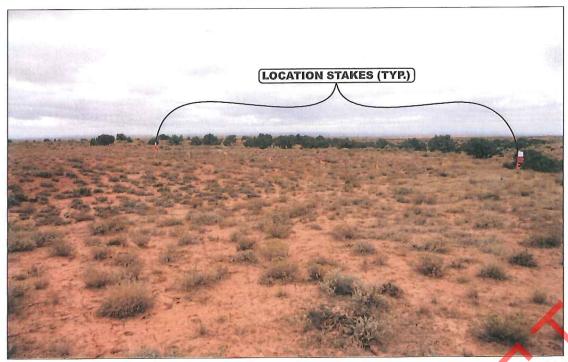


PHOTO: VIEW OF LOCATION STAKES

CAMERA ANGLE: SOUTHERLY

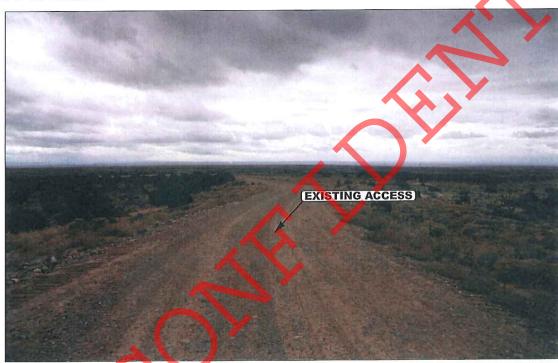


PHOTO: VIEW OF EXISTING ACCESS

CAMERA ANGLE: SOUTHERLY

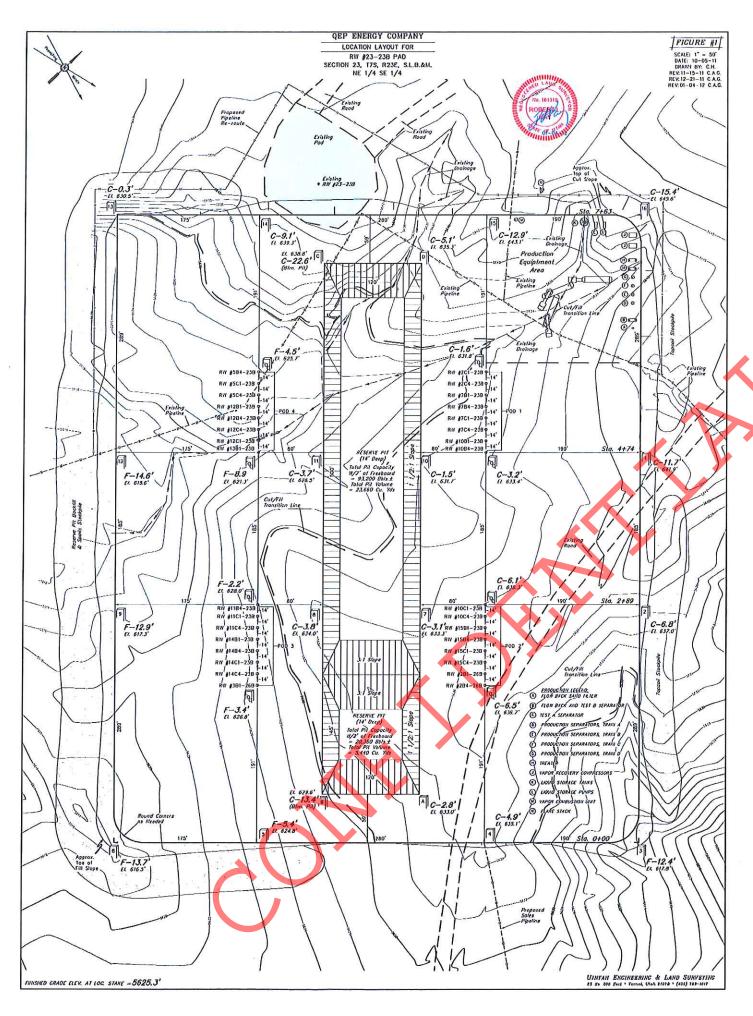


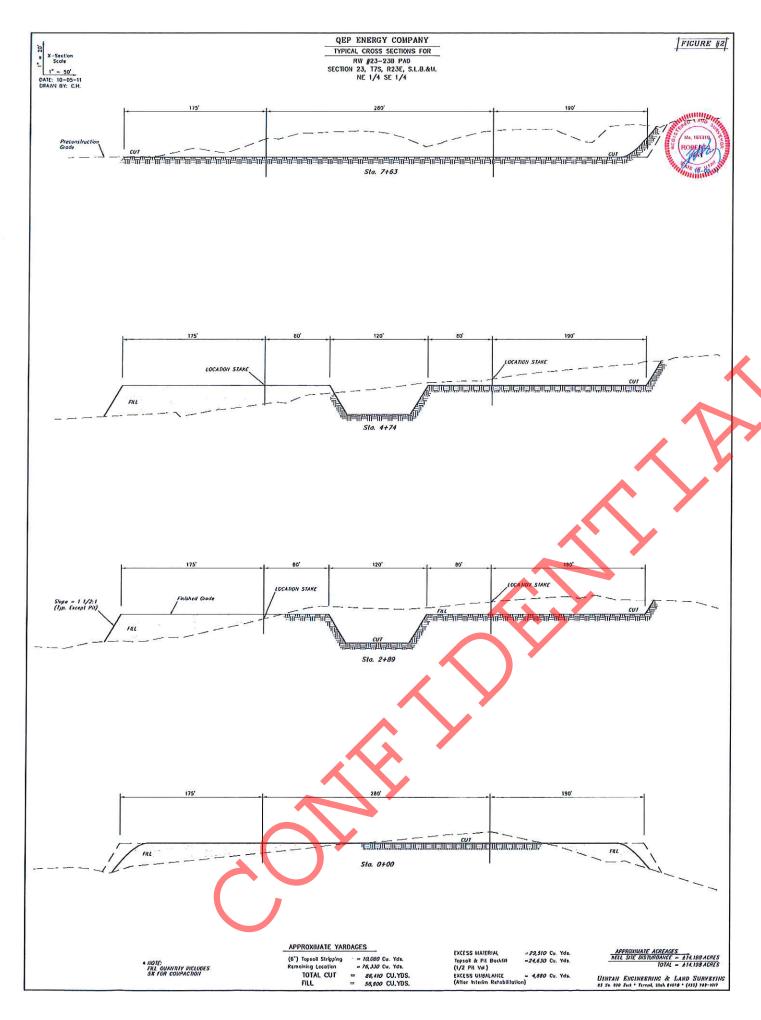
Uintah Engineering & Land Surveying 85 South 200 East Vernal, Utah 84078 (435) 789-1017 * FAX (435) 789-1813

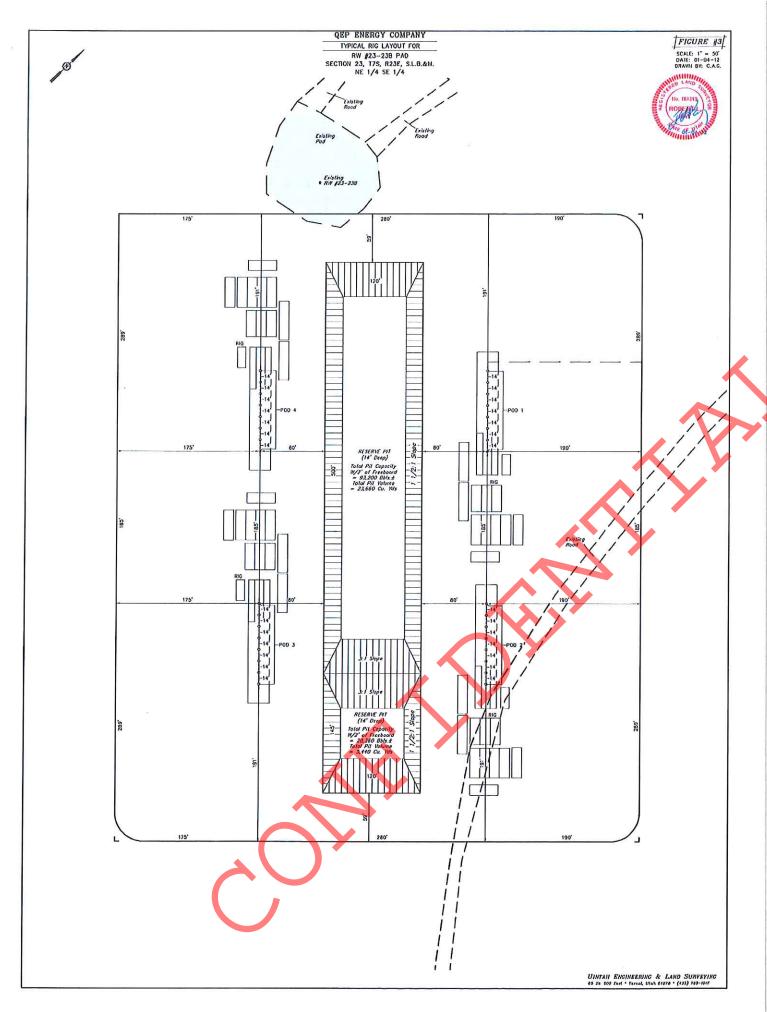
LOCATION PHOTOS

РНОТО

TAKEN BY: A.F. | DRAWN BY: A.W. | REVISED: 00-00-00





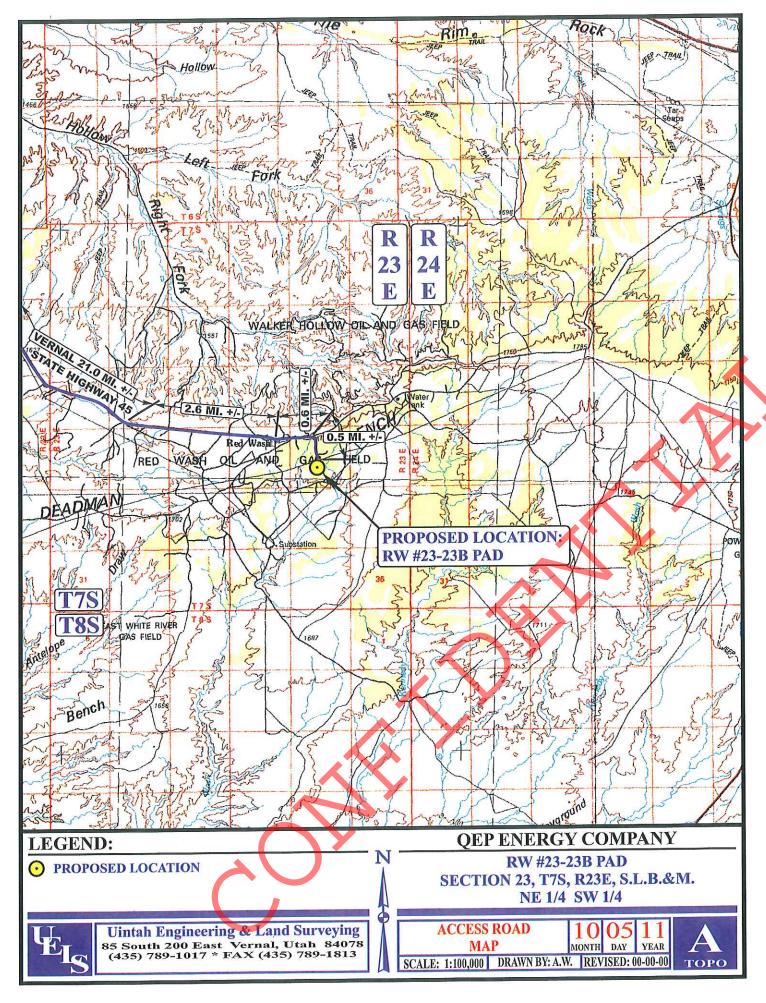


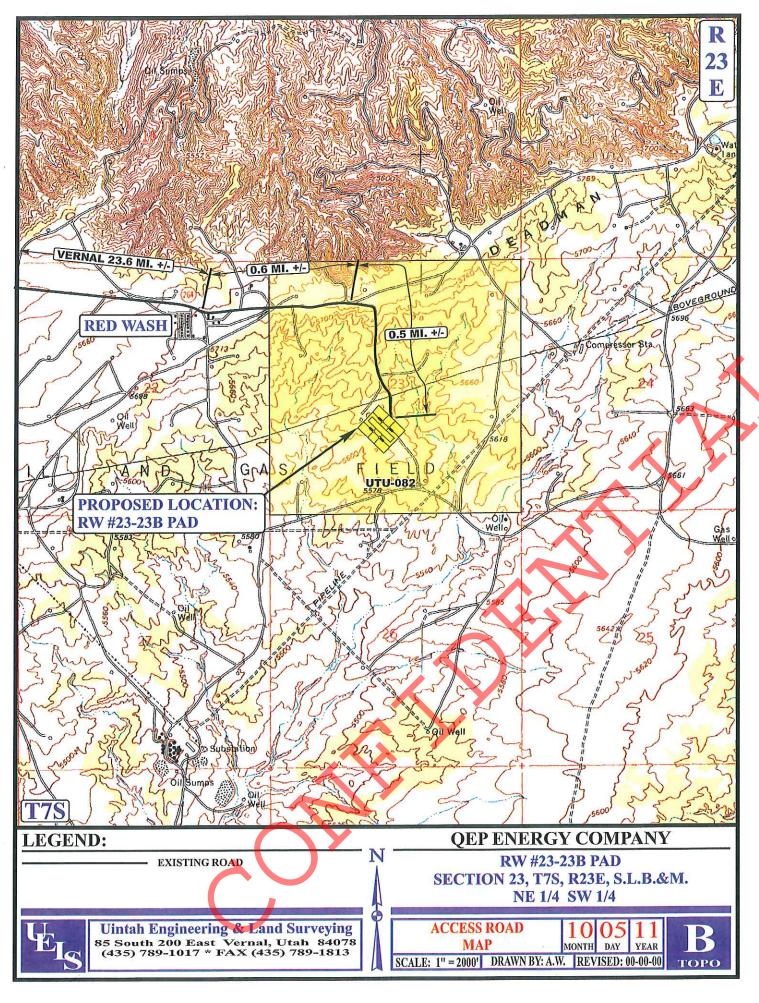
QEP ENERGY COMPANY RW #23-23B PAD SECTION 23, T7S, R23E, S.L.B.&M.

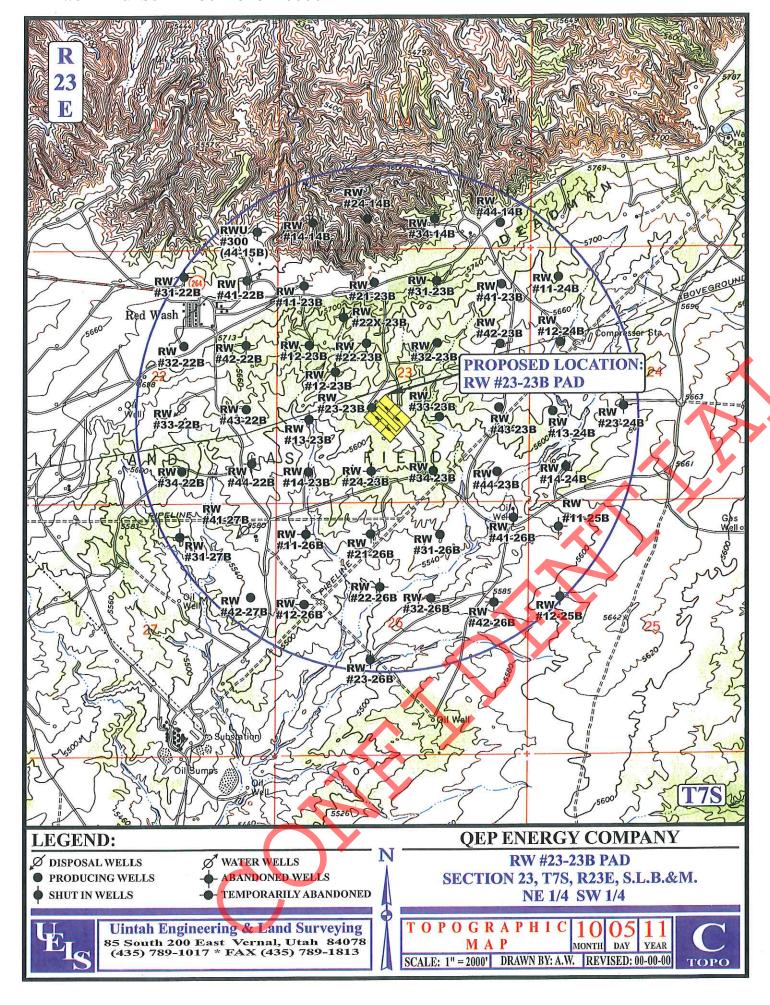
PROCEED IN AN EASTERLY, THEN SOUTHERLY DIRECTION FROM VERNAL, UTAH ALONG U.S. HIGHWAY 40 APPROXIMATELY 3.9 MILES TO THE JUNCTION OF THIS ROAD AND STATE HIGHWAY 45 TO THE SOUTH; TURN RIGHT AND PROCEED IN A SOUTHERLY DIRECTION APPROXIMATELY 17.1 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; TURN LEFT AND PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 2.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE EAST; PROCEED IN AN EASTERLY DIRECTION APPROXIMATELY 0.6 MILES TO THE JUNCTION OF THIS ROAD AND AN EXISTING ROAD TO THE SOUTHEAST; TURN RIGHT AND PROCEED IN A SOUTHEASTERLY, THEN SOUTHERLY DIRECTION APPROXIMATELY 0.5 MILES TO THE PROPOSED LOCATION.

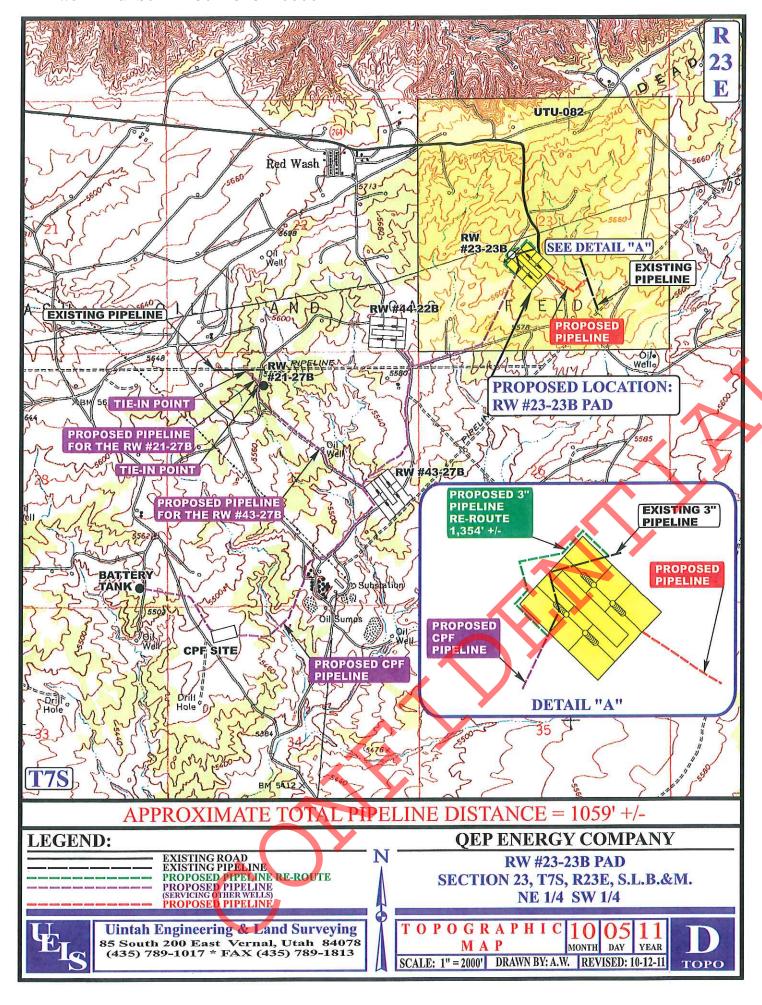
TOTAL DISTANCE FROM VERNAL, UTAH TO THE PROPOSED LOCATION IS APPROXIMATELY 24.7 MILES.













QEP ENERGY (UT)

Red Wash 23-23B PAD RW 5C1-23B

Original Hole

Plan: Plan ver.1 - Permit

Standard Planning Report

10 January, 2012





Design:

QEP Resources, Inc.

Planning Report



40.193199

1.41 9

-109.295575

 Database:
 EDMDB_QEP

 Company:
 QEP ENERGY (UT)

 Project:
 Red Wash

 Site:
 23-23B PAD

 Well:
 RW 5C1-23B

 Wellbore:
 Original Hole

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well RW 5C1-23B RKB @ 5641.30usft (Est RKB) RKB @ 5641.30usft (Est RKB)

True

Minimum Curvature

Project Red Wash

Map System: US State Plane 1983

Plan ver.1 - Permit

Geo Datum: North American Datum 1983

Map Zone: Utah Central Zone

System Datum: Mean Sea Level

Using geodetic scale factor

Site 23-23B PAD

 Site Position:
 Northing:
 7,246,686.310 usft
 Latitude:

 From:
 Map
 Easting:
 2,256,158.369 usft
 Longitude:

Position Uncertainty: 0.00 usft Slot Radius: 13-3/16 " Grid Convergence:

Grid Convergence:

Well RW 5C1-23B

 Well Position
 +N/-S
 -211.97 usft
 Northing:
 7,246,469.906 usft
 Latitude:
 40.192617

 +E/-W
 -183.38 usft
 Easting:
 2,255,980.282 usft
 Longitude:
 -109.296231

Position Uncertainty 0.00 usft Wellhead Elevation: 5,625.30 usft Ground Level: 5,625.30 usft

 Wellbore
 Original Hole

 Magnetics
 Model Name
 Sample Date
 Declination
 Dip Angle (°)
 Field Strength (nT)

 IGRF2010
 12/7/2011
 10.96
 66.05
 52,408

Design Plan ver.1 - Permit **Audit Notes:** Version: Phase: PLAN Tie On Depth: 0.00 **Vertical Section:** Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.00 307.81 0.00 0.00

Plan Sections			, ~~							
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,519.97	20.40	307.81	1,498.56	110.15	-141.94	2.00	2.00	0.00	307.81	
6,715.86	20.40	307.81	6,368.59	1,220.53	-1,572.71	0.00	0.00	0.00	0.00	
8,075.82	0.00	0.00	7,700.00	1,367.39	-1,761.96	1.50	-1.50	0.00	180.00	
11,510.82	0.00	0.00	11,135.00	1,367.39	-1,761.96	0.00	0.00	0.00	0.00	



QEP Resources, Inc.

Planning Report



Database: EDMDB_QEP
Company: QEP ENERGY (UT)
Project: Red Wash
Site: 23-23B PAD
Well: RW 5C1-23B

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well RW 5C1-23B RKB @ 5641.30usft (Est RKB) RKB @ 5641.30usft (Est RKB)

True Minimum Curvature

Wellbore: Original Hole

Design: Plan ver.1 - Permit

Planned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
1,519.97	20.40	307.81	1,498.56	110.15	-141.94	179.66	2.00	2.00	0.00
6,715.86	20.40	307.81	6,368.59	1,220.53	-1,572.71	1,990.75	0.00	0.00	0.00
8,075.82	0.00	0.00	7,700.00	1,367.39	-1,761.96	2,230.30	1.50	-1.50	0.00
11,510.82	0.00	0.00	11,135.00	1,367.39	-1,761.96	2,230.30	0.00	0.00	0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle (°)	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
RW 5C1-23B Target - plan misses target - Circle (radius 150.		0.00 00usft at 80	8,310.00 75.82usft M	1,367.39 D (7700.00 T\	-1,761.96 /D, 1367.39 N	7,247,793.370 , -1761.96 E)	2,254,185.320	40.196370	-109.302539

Casing Points				
	Measured Depth (usft)	Vertical Depth (usft)	Name	Casing Hole Diameter Diameter (") (")
	3,838.84	3,672.00 8 5/8"		8-5/8 12-1/4

Formations						
	Measured Depth (usft)	Vertical Depth (usft)	Name	Lithology	Dip (°)	Dip Direction (°)
	2,984.24	2,871.00	Green River		0.00	
	3,785.49	3,622.00	Mahogany		0.00	
	5,806.22	5,516.00	Est. Moderately Saline Water Base		0.00	
	6,446.37	6,116.00	Wasatch		0.00	
	8,687.82	8,312.00	Mesaverde		0.00	
	11,210.82	10,835.00	Sego		0.00	



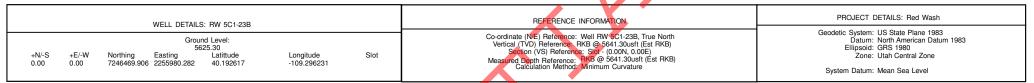
Company Name: QEP ENERGY (UT)

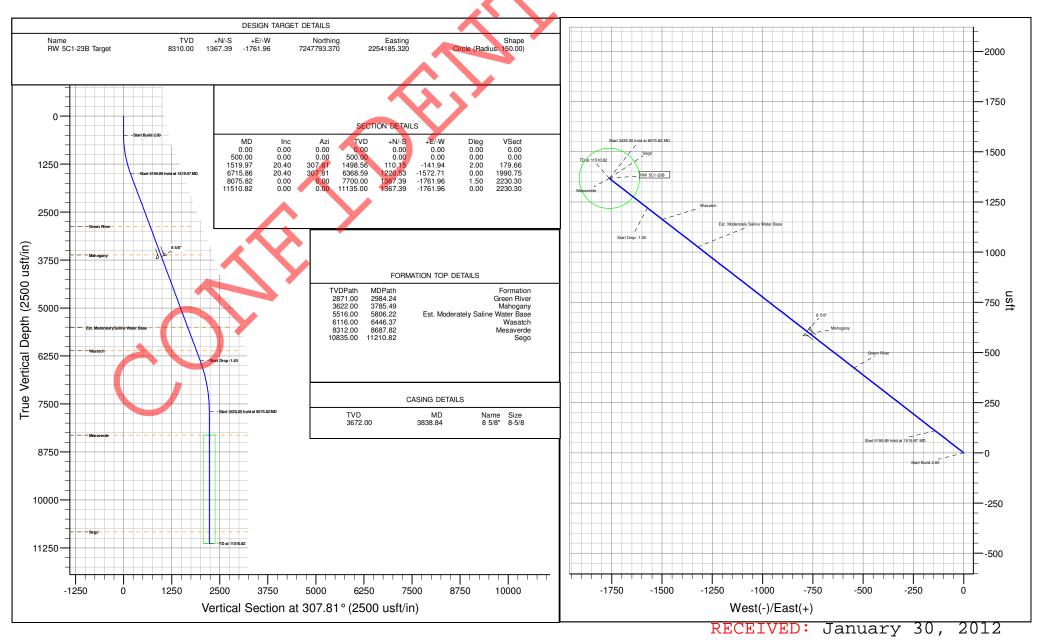
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Magnetic North: 10.95°

Magnetic Field
Strength: 52408.4snT
Dip Angle: 66.05°
Date: 12/7/2011
Model: IGRF2010

Project: Red Wash Site: 23-23B PAD Well: RW 5C1-23B Wellbore: Original Hole Design: Plan ver.1 - Permit





QEP ENERGY COMPANY RED WASH 23-23B PAD EXPANSION

ONSHORE ORDER NO. 1 MULTI – POINT SURFACE USE & OPERATIONS PLAN

RW 7C1-23B Surface: BHL:	•	2330' FWL 2294' FEL	SEC.23 SEC.23	NESW, T7S, R23E SWNE, T7S, R23E
RW 2C1-23B Surface: BHL:	1971' FSL, 850' FNL, 2	2289' FWL 2290' FEL	SEC.23 SEC.23	NESW, T7S, R23E NWNE, T7S, R23E
RW 2C4-23B Surface: BHL:	,	2299' FWL 2290' FEL	SEC.23 SEC.23	NESW, T7S, R23E NWNE, T7S, R23E
RW 7B1-23B Surface: BHL:	,	2309' FWL 2291' FEL	SEC.23 SEC.23	NESW, T7S, R23E SWNE, T7S, R23E
RW 7B4-23B Surface: BHL:	,	2319' FWL 2292' FEL	SEC.23 SEC.23	NESW, T7S, R23E SWNE, T7S, R23E
RW 7C4-23B Surface: BHL:	•	2340' FWL 2293' FEL	SEC.23 SEC.23	NESW, T7S, R23E SENE, T7S, R23E
RW 10B1-23B Surface: BHL:		2350' FWL 2292' FEL	SEC.23 SEC.23	NESW, T7S, R23E NWSE, T7S, R23E
RW 10B4-23B Surface: BHL:		2360' FWL 2291' FEL	SEC.23 SEC.23	NESW, T7S, R23E NWSE, T7S, R23E
RW 10C1-23B Surface: BHL:		2494' FWL 2293' FEL	SEC.23 SEC.23	NESW, T7S, R23E NWSE, T7S, R23E
RW 10C4-23B Surface: BHL:	•	2504' FWL 2292' FEL	SEC.23 SEC.23	NESW, T7S, R23E NWSE, T7S, R23E
RW 15B1-23B Surface: BHL:		2514' FWL 2290' FEL	SEC.23 SEC.23	NESW, T7S, R23E SWSE, T7S, R23E

RECEIVED: January 30, 2012

RW 15B4-23B Surface: BHL:	1746' FSL, 2524' FWL 804' FSL, 2295' FEL	SEC.23 SEC.23	NESW, T7S, R23E SWSE, T7S, R23E
RW 15C1-23B Surface: BHL:	1736' FSL, 2534' FWL 476' FSL, 2295' FEL	SEC.23 SEC.23	NESW, T7S, R23E SWSE, T7S, R23E
RW 15C4-23B Surface: BHL:	1727' FSL, 2544' FWL 144' FSL, 2292' FEL	SEC. 23 SEC.23	NESW, T7S, R23E SWSE, T7S, R23E
RW 2B1-26B Surface: BHL:	1717' FSL, 2554' FWL 186' FNL, 2292' FEL	SEC.23 SEC.26	NESW, T7S, R23E NWNE, T7S, R23E
RW 2B4-26B Surface: BHL:	1707' FSL, 2564' FWL 516' FNL' 2292' FEL	SEC.23 SEC.26	NESW, T7S, R23E NWNE, T7S, R23E
RW 5B4-23B Surface: BHL:	1768' FSL, 2096' FWL 1829' FNL, 342' FWL	SEC.23 SEC.23	NESW, T7S, R23E SWNW, T7S, R23E
RW 5C1-23B		$\langle \cdot \rangle$	
Surface:	1759' FSL, 2106' FWL	SEC.23	NESW, T7S, R23E
BHL:	2153' FNL, 343' FWL	SEC.23	SWNW, T7S, R23E
RW 5C4-23B Surface: BHL:	1749' FSL, 2116' FWL 2483' FNL, 341' FWL	SEC.23 SEC.23	NESW, T7S, R23E SWNW, T7S, R23E
RW 12B1-23B Surface: BHL:	1739' FSL, 2126' FWL 2469' FSL, 342' FWL	SEC.23 SEC.23	NESW, T7S, R23E NWSW, T7S, R23E
RW 12B4-23B Surface: BHL:	1730' FSL, 2136' FWL 2132' FSL, 340' FWL	SEC.23 SEC.23	NESW, T7S, R23E NWSW, T7S, R23E
RW 12C4-23B Surface: BHL:	1720' FSL, 2146' FWL 1472' FSL, 342' FWL	SEC.23 SEC.23	NESW, T7S, R23E NWSW, T7S, R23E
RW 12C1-23B Surface: BHL:	1710' FSL, 2156' FWL 1800' FSL, 343' FWL	SEC.23 SEC.23	NESW, T7S, R23E NWSW, T7S, R23E
RW 13B1-23B Surface: BHL:	1701' FSL, 2166' FWL 1150' FSL, 342' FWL	SEC.23 SEC.23	NESW, T7S, R23E SWSW, T7S, R23E

RECEIVED: January 30, 2012

RW 11B4-23B Surface: BHL:	1573' FSL, 2300' FWL 2127' FSL, 1664' FWL	SEC.23 SEC.23	NESW, T7S, R23E NESW, T7S, R23E
RW 11C1-23B Surface: BHL:	1563' FSL, 2310' FWL 1796' FSL, 1663' FWL	SEC.23 SEC.23	NESW, T7S, R23E NESW, T7S, R23E
RW 11C4-23B Surface: BHL:	1553' FSL, 2320' FWL 1464' FSL, 1663' FWL	SEC.23 SEC.23	NESW, T7S, R23E NESW, T7S, R23E
RW 14B1-23B Surface: BHL:	1544' FSL, 2330' FWL 1142' FSL, 1662' FWL	SEC.23 SEC.23	NESW, T7S, R23E SESW, T7S, R23E
RW 14B4-23B Surface: BHL:	1534' FSL, 2341' FWL 806' FSL, 1660' FWL	SEC.23 SEC.23	NESW, T7S, R23E SESW, T7S, R23E
RW 14C1-23B Surface: BHL:	1524' FSL, 2351' FWL 480' FSL, 1661' FWL	SEC.23 SEC.23	NESW, T7S, R23E SESW, T7S, R23E
RW 14C4-23B Surface: BHL:	1515' FSL, 2361' FWL 149' FSL, 1662' FWL	SEC.23 SEC.23	NESW, T7S, R23E SESW, T7S, R23E
RW 3B1-26B Surface: BHL:	1505' FSL, 2371' FWL 182' FNL, 1661' FWL	SEC.23 SEC.26	NESW, T7S, R23E NENW, T7S, R23E

This surface use and operations plan provides site specific information for the above referenced wells.

An onsite inspection was conducted for the RW 23-23B Pad Expansion on October 11, 2011. Weather conditions were sunny at the time of the onsite. In attendance at the inspection were the following individuals:

Kevin Sadlier
Holly Villa
Bureau of Land Management
Bureau of Land Management
QEP Energy Company

QEP Energy Company

Stephanie Tomkinson
Ryan Angus
Valyn Davis
Bob Haygood
QEP Energy Company
QEP Energy Company
QEP Energy Company
QEP Energy Company

Andy Floyd Uintah Engineering & Land Surveying

The proposed project consists of a 32 well pad with 14.198 acres of total disturbance. This equates to approximately 0.43 acres of disturbance per well.

1. Existing Roads:

The proposed well site is approximately 25 miles South of Vernal, Utah.

Refer to Topo Maps A and B for location of access roads within a 2 – mile radius.

All existing roads will be maintained and kept in good repair during all phases of operation.

2. Planned Access Roads:

Please refer to QEP Energy Company Greater Deadman Bench EIS UTU-080-200-0369V Record of Decision dated March 31, 2008.

Refer to Topo Map B for the location of the proposed access road.

No new access road is proposed. The access to be used is the existing road that parallels pod #2. The road will be re-routed on the north east side of the pad and will remain on the pad. Graveling or capping the roadbed will be performed as necessary to provide a well constructed safe road. Should conditions warrant, rock, gravel or culverts will be installed as needed.

Refer to Topo Map B for the location of the proposed access road.

3. Location of Existing Wells Within a 1 - Mile Radius:

Please refer to Topo Map C.

4. Location of Existing & Proposed Facilities:

Please refer to QEP Energy Company Greater Deadman Bench EIS UTU-080-200-0369V Record of Decision dated March 31, 2008.

Please refer to Figure 1 for production facility layout and location.

The following guidelines will apply if the well is productive.

A containment dike will be constructed completely around those production facilities which contain fluids (i.e., production tanks, produced water tanks). These dikes will be constructed of compacted impervious subsoil; hold 110% of the capacity of the largest tank; and, be independent of the back cut. If a Spill Prevention, Control, and Countermeasure (SPCC) Plan is required by the Environmental Protection Agency, the containment dike may be expanded to meet SPCC requirements with approval by the BLM/VFO AO. The specific APD will address additional capacity if such is needed due to environmental concerns. The use of topsoil for the construction of dikes will not be allowed.

All loading lines will be placed inside the berm surrounding the tank batteries.

All permanent (on site six months or longer) above the ground structures constructed or installed, including pumping units, will be painted a color approved by the BLM.

It was determined on the onsite by the BLM VFO AO that the facilities will be painted Covert Green.

The existing 3" pipeline that crosses the proposed location will be re-routed to the north east side of the pad for safety. The proposed pipeline re-route is 1,354' in length, containing approximately .932 acres. Please refer to Topo Map D for the location of the existing pipeline and the re-route.

Refer to Topo Map D for the location of the proposed pipeline.

All existing equipment will be moved off location before any construction begins.

The proposed surface pipeline will be constructed utilizing existing disturbed areas to minimize surface disturbance. No construction activities will be allowed outside of the proposed pipeline.

Prior to construction, the Permittee will develop a plan of installation to minimize surface disturbance. Pipe will be strung along the pipeline route with either a flatbed trailer and rubber tired backhoe or a tracked typed side boom. Where surface conditions do not allow the pipe to be strung using conventional methods, the Permittee will utilize pull sections to run the fabricated pipe through the area from central staging areas along the pipeline route.

Upon completion of stringing activities the Permittee will fabricate the pipeline on wooden skids adjacent to the centerline of the pipeline route using truck mounted welding machines. All fabricated piping will be lowered off of the wooden skids and placed along the centerline. Upon completion of all activities, the wooden skids will be removed from the pipeline route using a flatbed truck or flatbed truck and trailer.

When the surface terrain prohibits the Permittee from safely installing the pipeline along the pipeline route, grading of the route will be required. Prior to installing the pipeline in these areas a plan will be developed to safely install the pipeline while minimizing grading activities and surface disturbances. Additionally, erosion control Best Management Practices will be installed as needed prior to the start of any grading activities. Surface grading will be limited to what is needed to safely install the pipeline. Track type bulldozers and track type backhoes will be utilized for grading activities.

Upon completion of the pipeline installation, the pipeline route will be restored to the pre-disturbance surface contours.

The proposed pipeline will be a surface 10" or smaller, 1,059' in length, containing .729 acres.

Road Crossings

Fusion Bond or concrete coated pipe will be used for all road crossings to alleviate future corrosion.

All pipe and fittings used for road crossings will be prefabricated within the proposed pipeline route to minimize the duration of open pipe trench across the roadway. Pipe used for road crossings will be isolated on each end with a flange set and insulation kit and cathodically protected with a magnesium type anode. Adequately sized equipment will be used for minor and major road crossings. Depth of cover for minor roads will be >4' and the depth of cover for major roads will be >6'.

Prior to lowering the pipe in the trench, the Permittee will "Jeep" the pipe to locate and repair any Holidays in the pipe coating. Upon lowering the pipe in the trench, 6" of bedding and a minimum of 6" of shading will be installed to protect the pipe using either native soils <1" in diameter or imported sand. Pipe trenches that extend across gravel roads will be backfilled with native soils to within 8" of the driving surface and capped with 3/4" road base. Pipe trenches that extend across asphalt paved roads will be backfilled to 4" of the driving surface with 3/4" road base and capped asphalt material.

5. Location and Type of Water Supply:

Please refer to QEP Energy Company Greater Deadman Bench EIS UTU-080-200-0369V Record of Decision dated March 31, 2008.

Water for drilling purposes would be obtained from Wonsits Valley Water Right # A 36125 (which was filed on May 7, 1964) or Red Wash Water Right # 49-2153 (which was filed on March 25, 1960). It was determined by the Fish and Wildlife Service that any water right number filed before 1989 is not depleting to the Upper Colorado River System.

6. Source of Construction Materials:

Please refer to QEP Energy Company Greater Deadman Bench EIS UTU-080-200-0369V Record of Decision dated March 31, 2008.

Surface and subsoil materials in the immediate area will be utilized.

Any gravel will be obtained from a commercial source.

The use of materials under BLM jurisdiction will conform with 43 CFR 3610.2-3.

7. Methods of Handling Waste Materials:

Please refer to QEP Energy Company Greater Deadman Bench EIS UTU-080-200-0369V Record of Decision dated March 31, 2008.

Drill cuttings will be contained and buried in the reserve pit.

Drilling fluids including salts and chemicals will be contained in the reserve pit. Upon termination of drilling and completion operations, the liquid contents of the reserve pit will be used at the next drill site or will be removed and disposed of at an approved waste disposal facility within 6 months after drilling is terminated.

Immediately upon well completion, any hydrocarbons in the pit shall be removed in accordance with 43 CFR 3162.7-1.

Unless specified in the site specific APD, the reserve pit will be constructed on the location and will not be located within natural drainages, where a flood hazard exists or surface runoff will or damage the pit walls. The reserve pit will be constructed so that it will not leak, break, or allow discharge of liquids.

It will be determined at the on-site inspection if a pit liner is necessary, the reserve pit will be lined with a synthetic reinforced 30 mil liner with sufficient bedding to cover any rocks. The liner will overlap the pit walls and be covered with dirt and/or rocks to hold it in place.

No trash or scrap will be disposed of in the pit.

Reserve pit leaks are considered an undesirable event and will be orally reported to the AO.

After first production, produced wastewater will be confined to the approved pit or storage tank for a period not to exceed 90 days.

After the 90 day period, the produced water will be contained in tanks on location and then hauled by truck to one of the following pre-approved disposal sites:

Red Wash Disposal well located in the SESE, Section 28, T7S, R23E, West End Disposal located in the NESE, Section 28, T7S, R22E, NBE 12 SWD-10-9-23 located in the NWSW, Section 10, 9S, 23E.

Produced water, oil, and other byproducts will not be applied to roads or well pads for the control of dust or weeds. The dumping of produced fluids on roads, well sites, or other areas will not be allowed.

Any spills of oil, gas, salt water, or other noxious fluids will be immediately cleaned up and removed to an approved disposal site. The spills will be reported to the AO and other authorities as appropriate.

A chemical porta-toilet will be furnished with the drilling rig. The chemical porta-toilet wastes will be hauled to Ashley Valley Sewer and Water System for disposal.

Garbage, trash, and other waste materials will be collected in a portable, self-contained, fully enclosed trash cage during operations. Trash will not be burned on location. All debris and other waste material not contained in the trash cage will be cleaned up and removed from the location immediately after removal of the drilling rig. All trash and waste material will be hauled to the Uintah County Landfill.

No chemicals subject to reporting under SARA Title III (hazardous materials) in an amount greater than 10,000 pounds will be used, produced, stored, transported, or disposed of annually in association with the drilling, testing, or completing of wells. Furthermore, extremely hazardous substances, as defined in 40 CFR 355, in threshold planning quantities, will not be used, produced, stored, transported, or disposed of in association with the drilling, testing, or completing of wells within these areas. Specific APD's shall address any modifications from this policy.

8. Ancillary Facilities:

None anticipated.

9. Well Site Layout: (See Location Layout Diagram)

The attached Location Layout Diagram describes drill pad cross-sections, cuts and fills and locations of the mud tanks, reserve pit, flare pit, pipe racks, trailer parking, spoil dirt stockpile(s), and surface material stockpile(s).

Please see the attached diagram rig orientation, parking areas, and access roads, as well as the location of the following:

The reserve pit.

The stockpiled topsoil will not be used for facility berms. All brush removed from the well pad during construction will be stockpiled with topsoil.

The flare pit or flare box will be located downwind from the prevailing wind direction.

Any drainage that crosses the well location will be diverted around the location by using ditches, water diversion drains or berms. If deemed necessary at the on-site, erosion drains may be installed to contain sediments that could be produced from access roads and well locations.

A pit liner is required. A felt pit liner will be required if bedrock is encountered.

10. Fencing Requirements:

Any open pits will be fenced during the operations. The fencing will be maintained until such time as the pits are backfilled.

All pits will be fenced according to the following minimum standards:

39 inch net wire will be used with at least one strand of barbed wire on top of the net wire. Barbed wire is not necessary if pipe or some type of reinforcement rod is attached to the top of the entire fence.

The net wire shall be no more than two inches above the ground. The barbed wire shall be three inches over the net wire. Total height of the fence shall be at least 42 inches.

Corner posts shall be cemented and/or braced in such a manner to keep the fence tight at all times.

Standard steel, wood, or pipe posts shall be used between the corner braces. Maximum distance between any 2 fence posts shall be no greater than 16 feet.

All wire shall be stretched using a stretching device before it is attached to corner posts.

The reserve pit will be fenced on three (3) sides during drilling operations. The fourth side will be put in place when the rig moves off location. The pit will be fenced and maintained until it is backfilled. If drilling operations does not commence within 3 days, the fourth side of the fence will be installed

11. Plans for Reclamation of the Surface:

Please refer to QEP Energy Company Uinta Basin Division Reclamation Plan

Site Specific Procedures:

Site Specific Reclamation Summary:

Reclamation will follow QEP Energy Company, Uinta Basin Division's Reclamation Plan, September 2009 (QEP's Reclamation Plan) and the BLM Green River District Reclamation Guidelines.

After the pad is built, the topsoil piles will be seeded, signed, and erosion control devices and techniques will be implemented.

All trash and debris will be removed from the disturbed area.

After the wells are on production, the pad will be downsized to a smaller production pad.

The cuttings pit is located in the center of the production pad; it will be backfilled and capped with road base and gravel.

Interim reclamation will be conducted on the portion of the pad that is downsized.

The interim reclamation area will be recontoured to blend with the surrounding landscape. All topsoil will be evenly distributed.

Water courses and drainages will be established.

Erosion control devices and techniques will be installed where needed.

Seeding will be done in the fall, prior to ground freeze up.

The seed mix will be determined prior to seeding.

Monitoring and reporting will be conducted as stated in QEP's Reclamation Plan. A reference site and weed data sheet have been established and are included in this application.

Weed control will be conducted as stated in QEP's Reclamation Plan.

It was determined and agreed upon that there is 5" inches of top soil.

12. Surface Ownership:

Bureau of Land Management 170 South 500 East Vernal, Utah 84078 (435) 781-4400

13. Other Information:

A Class III archaeological survey was conducted by Montgomery Archaeology Consultants. A copy of this report was submitted on October 19, 2011, **State of Utah Antiquities Project U-11-MQ-0913b** by Montgomery Archaeology Consultants. Cultural resource clearance was recommended for this location.

A Class III paleontological survey was conducted by Intermountain Paleo Consulting. A copy of this report was submitted on October 14, 2011 IPC # 11-176 by Stephen D. Sandau. The inspection resulted in the location of no fossil resources. However, if vertebrate fossil(s) are found during construction a paleontologist should be immediately notified. QEP Energy Company will provide Paleo monitor if needed.





11002 East 17500 South Vernal, UT 84078 Telephone 435-781-4331 Fax 435-781-4395

January 26, 2012

Ms. Diana Mason Division of Oil, Gas and Mining P.O. Box 145801 Salt Lake City, UT 84114-6100

RE: Directional Drilling R649-3-11
Red Wash Unit
RW 5C1-23B
T7S-R23E
Section 23:
1759' FSL, 2106' FWL, NESW, (Surface)
2153' FNL, 343' FWL, SWNW, (Bottom Hole)
Uintah County, Utah

Dear Ms. Mason:

Pursuant to the filing of QEP Energy Company Application for Permit to Drill regarding the above referenced well, we are hereby submitting this letter in accordance with Oil & Gas Conservation Rule R649 -3-11 pertaining to the location and drilling of a directional well.

QEP Energy Company is permitting this well at this location for geological reasons. Locating the well at the surface location and directionally drilling from this location, QEP Energy Company will be able to minimize surface disturbance.

Furthermore, QEP Energy Company certifies that it is the sole working interest owner within 460 feet of the entire directional well bore.

Therefore, based on the above stated information QEP Energy Company requests the permit be granted pursuant to Rule R649-3-11.

Sincerely,

QEP Energy Company

Jan Nelson Permit Agent

Lessee's or Operator's Representative & Certification:

Valyn Davis Regulatory Affairs Analyst QEP Energy Company 11002 East 17500 South Vernal, UT 84078 (435) 781-4369

Certification: All lease and/or unit operations will be conducted in such a manner that full compliance is made with all applicable laws, regulations, Onshore Oil and Gas Orders, the approved Plan of Operations, and any applicable Notice to Lessees.

The Operator will be fully responsible for the actions of its subcontractors. A complete copy of the approved "Application for Permit to Drill" will be furnished to the field representative(s) to ensure compliance and shall be on location during all construction and drilling operations.

QEP Energy Company is considered to be the operator of the subject well. QEP Energy Company agrees to be responsible under terms and conditions of the lease for the operations conducted upon leased lands.

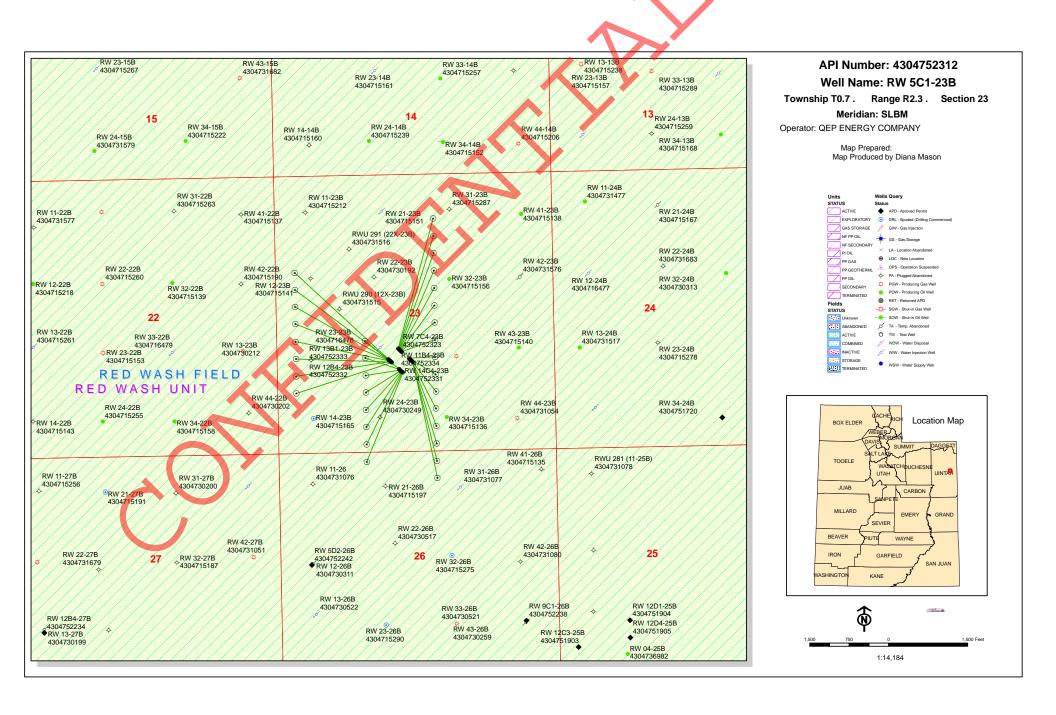
Bond coverage pursuant to 43 CFR 3104.2 for lease activities is being provided by Bond No. ESB000024

I hereby certify that I, or persons under my supervision, have inspected the proposed drill site and access route, that I am familiar with the conditions that currently exist, that I have full knowledge of the State and Federal laws applicable to this operations; that the statements made in this plan are, to the best of my knowledge, true and correct; and the work associated with the operations proposed herein will be performed in conformity with this plan and the terms and conditions under which it is approved. This statement is subject to the provisions of 18 U.S.C. 1001 for the filing of a false statement.

Valyn Waws

1/27/2012

Date



API Well Number: 43047523120000

United States Department of the Interior

BUREAU OF LAND MANAGEMENT

Utah State Office
P.O. Box 45155
Salt Lake City, Utah 84145-0155

IN REPLY REFER TO: 3160 (UT-922)

February 7, 2012

Memorandum

To: Assistant District Manager Minerals, Vernal District

From: Michael Coulthard, Petroleum Engineer

Subject: 2012 Plan of Development Red Wash Unit,

Uintah County, Utah.

Pursuant to email between Diana Whitney, Division of Oil, Gas and Mining, and Mickey Coulthard, Utah State Office, Bureau of Land Management, the following wells are planned for calendar year 2012 within the Red Wash Unit, Uintah County, Utah.

API#	WE	LL NAME			LOCATIO	ON		
(Proposed PZ	MES	SA VERDE)			X			
43-047-52303	RW	2C1-23B BHL			R23E R23E			
43-047-52304	RW	2C4-23B BHL	 4		R23E R23E			
43-047-52305	RW	7B1-23B BHL			R23E R23E		_	
43-047-52306	RW	7B4-23B BHL			R23E R23E		_	
43-047-52307	RW				R23E R23E			
43-047-52308	RW				R23E R23E			
43-047-52309	RW				R23E R23E		_	
43-047-52310	RW				R23E R23E		-	FWL FWL
43-047-52311	RW			T07S T07S	R23E R23E	1768 1829	_	

RECEIVED: February 14, 2012

API#	WELL NAME		LOCATION	
(Proposed PZ	MESA VERDE)			
43-047-52312	RW 5C1-23B BHL			FSL 2106 FWL FNL 0343 FWL
43-047-52313	RW 2B4-26B BHL			FSL 2564 FWL FNL 2292 FEL
43-047-52314	RW 15C4-23B BHL			FSL 2544 FWL FSL 2292 FEL
43-047-52315	RW 15B1-23B BHL			FSL 2514 FWL FSL 2290 FEL
43-047-52316	RW 15C1-23B BHL			FSL 2534 FWL FSL 2295 FEL
43-047-52317	RW 10C4-23B BHL			FSL 2504 FWL FSL 2292 FEL
43-047-52318	RW 14B1-23B BHL			rsl 2330 FWL rsl 1662 FWL
43-047-52319	RW 15B4-23B BHL			rsi 2524 FWL rsi 2295 FEL
43-047-52320	RW 10C1-23B BHL			FSL 2494 FWL FSL 2293 FEL
43-047-52321	RW 11C4-23B BHL			FSL 2320 FWL FSL 1663 FWL
43-047-52322	RW 10B4-23B BHL			FSL 2360 FWL FSL 2291 FEL
43-047-52323				FSL 2340 FWL FNL 2293 FEL
43-047-52324				FSL 2554 FWL FNL 2292 FEL
43-047-52325				FSL 2371 FWL FNL 1661 FWL
43-047-52326				FSL 2310 FWL FSL 1663 FWL
43-047-52327	RW 5C4-23B BHL			FSL 2116 FWL FNL 0341 FWL
43-047-52328	RW 12B1-23B BHL			FSL 2126 FWL FSL 0342 FWL
43-047-52329	RW 12C4-23B BHL			FSL 2146 FWL FSL 0342 FWL

Page 2

API Well Number: 43047523120000

Page 3 API# WELL NAME LOCATION (Proposed PZ MESA VERDE) 43-047-52330 RW 12C1-23B Sec 23 T07S R23E 1710 FSL 2156 FWL BHL Sec 23 T07S R23E 1800 FSL 0343 FWL 43-047-52331 RW 14C4-23B Sec 23 T07S R23E 1515 FSL 2361 FWL BHL Sec 23 T07S R23E 0149 FSL 1662 FWL 43-047-52332 RW 12B4-23B Sec 23 T07S R23E 1730 FSL 2136 FWL BHL Sec 23 T07S R23E 2132 FSL 0340 FWL 43-047-52333 RW 13B1-23B Sec 23 T07S R23E 1701 FSL 2166 FWL BHL Sec 23 T07S R23E 1150 FSL 0342 FWL 43-047-52334 RW 11B4-23B Sec 23 T07S R23E 1573 FSL 2300 FWL BHL Sec 23 T07S R23E 2127 FSL 1664 FWL

This office has no objection to permitting the wells at this time.

Michael L. Coulthard Digitally Signed by Michael L. Coulting Digitally Signe

bcc: File - Red Wash Unit

Division of Oil Gas and Mining

Central Files Agr. Sec. Chron Fluid Chron

MCoulthard:mc:2-7-12

WORKSHEET APPLICATION FOR PERMIT TO DRILL

APD RECEIVED: 1/30/2012 API NO. ASSIGNED: 43047523120000

WELL NAME: RW 5C1-23B

OPERATOR: QEP ENERGY COMPANY (N3700) PHONE NUMBER: 435 781-4369

CONTACT: Valyn Davis

PROPOSED LOCATION: NESW 23 070S 230E Permit Tech Review:

> SURFACE: 1759 FSL 2106 FWL **Engineering Review:**

> BOTTOM: 2153 FNL 0343 FWL Geology Review:

COUNTY: UINTAH

LATITUDE: 40.19261 LONGITUDE: -109.29614 NORTHINGS: 4450527.00 **UTM SURF EASTINGS: 645035.00**

FIELD NAME: RED WASH LEASE TYPE: 1 - Federal

LEASE NUMBER: UTU082 PROPOSED PRODUCING FORMATION(S): MESA VERDE

SURFACE OWNER: 1 - Federal COALBED METHANE: NO

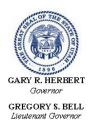
LOCATION AND SITING: **RECEIVED AND/OR REVIEWED:** R649-2-3. ✓ PLAT Unit: RED WASH Bond: FEDERAL - ESB000024 R649-3-2. General **Potash** Oil Shale 190-5 R649-3-3. Exception Oil Shale 190-3 Oil Shale 190-13 **Drilling Unit** Water Permit: A-36125/ 49-2153 Board Cause No: Cause 187-07 Effective Date: 9/18/2001 **RDCC Review:** Siting: Suspends General Siting Fee Surface Agreement Intent to Commingle R649-3-11. Directional Drill Commingling Approved

Comments: Presite Completed

4 - Federal Approval - dmason Stipulations:

15 - Directional - dmason

API Well No: 43047523120000



State of Utah

DEPARTMENT OF NATURAL RESOURCES

MICHAEL R. STYLER
Executive Director

Division of Oil, Gas and Mining

JOHN R. BAZA
Division Director

Permit To Drill

Well Name: RW 5C1-23B

API Well Number: 43047523120000

Lease Number: UTU082 Surface Owner: FEDERAL Approval Date: 2/14/2012

Issued to:

QEP ENERGY COMPANY, 11002 East 17500 South, Vernal, Ut 84078

Authority:

Pursuant to Utah Code Ann. 40-6-1 et seq., and Utah Administrative Code R649-3-1 et seq., the Utah Division of Oil, Gas and Mining issues conditions of approval, and permit to drill the listed well. This permit is issued in accordance with the requirements of Cause 187-07. The expected producing formation or pool is the MESA VERDE Formation(s), completion into any other zones will require filing a Sundry Notice (Form 9). Completion and commingling of more than one pool will require approval in accordance with R649-3-22.

Duration:

This approval shall expire one year from the above date unless substantial and continuous operation is underway, or a request for extension is made prior to the expiration date

General:

Compliance with the requirements of Utah Admin. R. 649-1 et seq., the Oil and Gas Conservation General Rules, and the applicable terms and provisions of the approved Application for permit to drill.

Conditions of Approval:

State approval of this well does not supercede the required federal approval, which must be obtained prior to drilling.

In accordance with Utah Admin. R.649-3-11, Directional Drilling, the operator shall submit a complete angular deviation and directional survey report to the Division within 30 days following completion of the well.

Notification Requirements:

The operator is required to notify the Division of Oil, Gas and Mining of the following actions during drilling of this well:

• Within 24 hours following the spudding of the well contact Carol Daniels at 801-538-5284

(please leave a voicemail message if not available)

OR

submit an electronic sundry notice (pre-registration required) via the Utah Oil & Gas

API Well No: 43047523120000

website

at http://oilgas.ogm.utah.gov

Reporting Requirements:

All reports, forms and submittals as required by the Utah Oil and Gas Conservation General Rules will be promptly filed with the Division of Oil, Gas and Mining, including but not limited to:

- Entity Action Form (Form 6) due within 5 days of spudding the well
- Monthly Status Report (Form 9) due by 5th day of the following calendar month
- Requests to Change Plans (Form 9) due prior to implementation
- Written Notice of Emergency Changes (Form 9) due within 5 days
- Notice of Operations Suspension or Resumption (Form 9) due prior to implementation
 - Report of Water Encountered (Form 7) due within 30 days after completion
 - Well Completion Report (Form 8) due within 30 days after completion or plugging

Approved By:

For John Rogers Associate Director, Oil & Gas

Form 3160-3 (August 2007) ECEIVED

JAN 26 212

FORM APPROVED

OMB No. 1004-0137 Expires July 31, 2010

5.	Lease S	Serial	No.
UTL	1082		

DEPARTMENT OF THE INTERIOR BUREAU OF LAND MANAGEMENTA VERNAL ITAH

UNITED STATES

APPLICATION FOR PERMIT TO	DRILL	SHYREEN	LFM./r	, UIAI	0. Il lilulan, Alloice	5 01 111	OE INAME	
IA. IVECTI WORK: IV IDAILL I IKEENIEK				7 If Unit or CA Agreement, Name and No. 892000761X			_	
lb. Type of Well: Oil Well Gas Well Other		Single Zone	Mult	iple Zone	8. Lease Name and RW 5C1-23B	Well N	0.	
2. Name of Operator QEP ENERGY COMPANY					9. API Well No. +3.047	• 5	23/1	_
^{3a.} Address 11002 SOUTH 17500 EAST VERNAL, UT 84078	3b. Phone (435) 78	No. <i>(include a</i> 1-4369	rea code)		10. Field and Pool, or RED WASH			
 Location of Well (Report location clearly and in accordance with an At surface NESW, 1759' FSL, 2106' FWL, 40:192617 N 	LAT., 109	.296231 W			11. Sec., T. R. M. or I SEC. 23, T7S, R23		-	_
At proposed prod. zone SWNW, 2153' FNL, 343' FWL, 40. 14. Distance in miles and direction from nearest town or post office* 25 MILES +/- SOUTH EAST OF VERNAL, UTAH	196369 N	LAT., 109.3	02539 W	LON.	12. County or Parish UINTAH		13. State	
15. Distance from proposed* 343' location to nearest property or lease line, ft. (Also to nearest drig. unit line, if any)	16. No. of 1280	6. No. of acres in lease 280 17. Spacing U		g Unit dedicated to this	well			
18. Distance from proposed location* to nearest well, drilling, completed, applied for, on this lease, ft. 7450' FROM UNIT BOUNDARY LINE	19. Proposed Depth 20. BLM/B 11,510' MD ESB0000 11,135' TVD		I/BIA Bond No. on file 20024			_		
21. Elevations (Show whether DF, KDB, RT, GL, etc.) 5625 GL	06/01/20		ork will sta	rt*	23. Estimated duration 30 DAYS			_
The Callerian and the state of		achments						_
 The following, completed in accordance with the requirements of Onshor Well plat certified by a registered surveyor. A Drilling Plan. A Surface Use Plan (if the location is on National Forest System SUPO must be filed with the appropriate Forest Service Office). 		4. Bond Item 5. Oper	to cover to 20 above). ator certification other site	he operation	s form: Is unless covered by an In a covered by an armation and/or plans as			e ·
25. Signature Valyn Wavo		e (Printed/Ty YN DAVIS	ped)			Date 01/20	3/2012	= -
REGULATORY AFFAIRS ANALYST								
Approved by (Signature)		e (Printed/Ty	ffy K	(enczl	ka	Date	JUN 2 8	- 201
Title Assistant Field Manager	Offic	e		_				_

Lands & Mineral Resources

VERNAL FIELD OFFICE

Application approval does not warrant or certify that the applicant holds legal or equitable title to those rights in the subject lease which would entitle the applicant to conduct operations thereon. Conditions of approval, if any, are attached.

Title 18 U.S.C. Section 1001 and Title 43 U.S.C. Section 1212, make it a crime for any person knowingly and willfully to make to any department or agency of the United States any false, fictitious or fraudulent statements or representations as to any matter within its jurisdiction.

(Continued on page 2)

RECEIVED

JUL 0 5 2012

DIV. OF OIL, GAS & MINING

NOTICE OF APPROVAL CONDITIONS OF APPROVAL ATTACHED

> CONFIDENTIAL NOG- 1/11/12

*(Instructions on page 2)

SXS0245A9



UNITED STATES DEPARTMENT OF THE INTERIOR **BUREAU OF LAND MANAGEMENT VERNAL FIELD OFFICE** 170 South 500 East

VERNAL, UT 84078

(435) 781-4400



CONDITIONS OF APPROVAL FOR APPLICATION FOR PERMIT TO DRILL

Company:	QEP ENERGY COMPANY	Location:	NESW, Sec.23, T7S R23E
Well No:	RW 5C1-23B	Lease No:	UTU-082
API No:	43-047-52312	Agreement:	Red Wash

OFFICE NUMBER:

(435) 781-4400

OFFICE FAX NUMBER: (435) 781-3420

A COPY OF THESE CONDITIONS SHALL BE FURNISHED TO YOUR FIELD REPRESENTATIVE TO INSURE COMPLIANCE

All lease and/or unit operations are to be conducted in such a manner that full compliance is made with the applicable laws, regulations (43 CFR Part 3160), and this approved Application for Permit to Drill including Surface and Downhole Conditions of Approval. The operator is considered fully responsible for the actions of his subcontractors. A copy of the approved APD must be on location during construction, drilling, and completion operations. This permit is approved for a two (2) year period, or until lease expiration, whichever occurs first. An additional extension, up to two (2) years, may be applied for by sundry notice prior to expiration.

NOTIFICATION REQUIREMENTS

-	Forty-Eight (48) hours prior to construction of location and access roads.
-	Prior to moving on the drilling rig.
-	Twenty-Four (24) hours prior to spudding the well.
-	Twenty-Four (24) hours prior to running casing and cementing all casing strings to: blm_ut_vn_opreport@blm.gov
-	Twenty-Four (24) hours prior to initiating pressure tests.
-	Within Five (5) business days after new well begins or production resumes after well has been off production for more than ninety (90) days.
	-

Page 2 of 7 Well: RW 5C1-23B 6/22/2012

SURFACE USE PROGRAM CONDITIONS OF APPROVAL (COAs)

- All new and replacement internal combustion gas field engines of less than or equal to 300 designrated horsepower must not emit more than 2 gms of NO_x per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower.
- All and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 gms of NO_x per horsepower-hour.
- If there is an active Gilsonite mining operation within 2 miles of the well location, operator shall notify the Gilsonite operator at least 48 hours prior to any blasting during construction.
- If paleontological materials are uncovered during construction, the operator is to immediately stop work and contact the Authorized Officer (AO). A determination will be made by the AO as to what mitigation may be necessary for the discovered paleontologic material before construction can continue.

Site Specific COA's

- When feasible, two or more rigs (including drilling and completion rigs) will not be run simultaneously within 200 meters of each other. If two or more rigs must be run simultaneously within 200 meters of each other, then effective public health buffer zones out to 200 meters (m) from the nearest emission source will be implemented. Examples of an effective public health protection buffer zone include the demarcation of a public access exclusion zone by signage at intervals of every 250 feet that is visible from a distance of 125 feet during daylight hours, and a physical buffer such as active surveillance to ensure the property is not accessible by the public during drilling operations. Alternatively, the proponent may demonstrate compliance with the 1-hour NO2 National Ambient Air Quality Standards (NAAQS) with appropriate and accepted near-field modeling. As part of this demonstration, the proponent may propose alternative mitigation that could include but is not limited to natural gas—fired drill rigs, installation of NOX controls, time/use restrictions, and/or drill rig spacing.
- All new and replacement internal combustion gas field engines of less than or equal to 300 designrated horse power must not emit more than 2 grams of NOx per horsepower-hour. This requirement does not apply to gas field engines of less than or equal to 40 design-rated horsepower-hour.
- All new and replacement internal combustion gas field engines of greater than 300 design rated horsepower must not emit more than 1.0 grams of NOx per horsepower-hour.
- · Green completions would be used for all well completion activities where technically feasible.
- Employ enhanced VOC emission controls with 95% control efficiency on production equipment having a potential to emit greater than 5 tons per year.
- The reserve pit will be fenced on three sides prior to drilling activity and closed off on the fourth side after drilling is finished. The reserve pits for the wells will be lined with a 16 ml liner with felt.
- A dike will be constructed around those production facilities that contain fluids. The dikes will be constructed of compacted subsoil. They will be impervious, hold 10 percent more than the capacity of the largest tank, and be independent of the back cut.

Page 3 of 7 Well: RW 5C1-23B 6/22/2012

DOWNHOLE PROGRAM CONDITIONS OF APPROVAL (COAs)

SITE SPECIFIC DOWNHOLE COAs:

Site Specific Drilling Plan COA's:

- Gamma ray Log shall be run from Total Depth to Surface.
- CBL will be run from TD to TOC.

Variances Granted:

Air Drilling

- Properly lubricated and maintained rotating head. Variance granted to use a properly maintained and lubricated diverter bowl in place of a rotating head.
- Blooie line discharge 100' from the well bore. Variance granted for blooie line discharge to be 50' to 70' from the well bore.
- Compressors located in the opposite direction from the blooie line a minimum of 100' from the well bore. Variance granted for truck/trailer mounted air compressors located 50' from the well bore.
- In lieu of mud products on location, operator will fill a 400 bbl tank with water for the kill medium.
- Automatic igniter. Variance granted for igniter, a diffuser will be used instead. Operator will mount a
 deflector at the end of the blooie line to change direction and reduce the velocity of the cuttings flow
 to the reserve pit.
- Flare pit. Variance granted, there is no need of a flare during the drilling of the surface hole.

All provisions outlined in Onshore Oil & Gas Order #2 Drilling Operations shall be strictly adhered to. The following items are emphasized:

DRILLING/COMPLETION/PRODUCING OPERATING STANDARDS

- The spud date and time shall be reported orally to Vernal Field Office within 24 hours of spudding.
- Notify Vernal Field Office Supervisory Petroleum Engineering Technician at least 24 hours in advance of casing cementing operations and BOPE & casing pressure tests.
- All requirements listed in Onshore Order #2 III. E. Special Drilling Operations are applicable for air drilling of surface hole.
- Blowout prevention equipment (BOPE) shall remain in use until the well is completed or abandoned. Closing unit controls shall remain unobstructed and readily accessible at all times. Choke manifolds shall be located outside of the rig substructure.

Page 4 of 7 Well: RW 5C1-23B 6/22/2012

- All BOPE components shall be inspected daily and those inspections shall be recorded in the daily drilling report. Components shall be operated and tested as required by Onshore Oil & Gas Order No. 2 to insure good mechanical working order. All BOPE pressure tests shall be performed by a test pump with a chart recorder and <u>NOT</u> by the rig pumps. Test shall be reported in the driller's log.
- BOP drills shall be initially conducted by each drilling crew within 24 hours of drilling out from under the surface casing and weekly thereafter as specified in Onshore Oil & Gas Order No. 2.
- Casing pressure tests are required before drilling out from under all casing strings set and cemented in place.
- No aggressive/fresh hard-banded drill pipe shall be used within casing.
- Cement baskets shall not be run on surface casing.
- The operator must report all shows of water or water-bearing sands to the BLM. If flowing water is
 encountered it must be sampled, analyzed, and a copy of the analyses submitted to the BLM Vernal
 Field Office.
- The operator must report encounters of all non oil & gas mineral resources (such as Gilsonite, tar sands, oil shale, trona, etc.) to the Vernal Field Office, in writing, within 5 working days of each encounter. Each report shall include the well name/number, well location, date and depth (from KB or GL) of encounter, vertical footage of the encounter and, the name of the person making the report (along with a telephone number) should the BLM need to obtain additional information.
- A complete set of angular deviation and directional surveys of a directional well will be submitted to the Vernal BLM office engineer within 30 days of the completion of the well.
- While actively drilling, chronologic drilling progress reports shall be filed directly with the BLM,
 Vernal Field Office on a weekly basis in sundry, letter format or e-mail to the Petroleum Engineers until the well is completed.
- A cement bond log (CBL) will be run from the production casing shoe to the top of cement and shall be utilized to determine the bond quality for the production casing. Submit a field copy of the CBL to this office.
- Please submit an electronic copy of all other logs run on this well in LAS format to UT_VN_Welllogs@BLM.gov. This submission will supersede the requirement for submittal of paper logs to the BLM.
- There shall be no deviation from the proposed drilling, completion, and/or workover program as approved. Safe drilling and operating practices must be observed. Any changes in operation must have prior approval from the BLM Vernal Field Office.

Page 5 of 7 Well: RW 5C1-23B 6/22/2012

OPERATING REQUIREMENT REMINDERS:

 All wells, whether drilling, producing, suspended, or abandoned, shall be identified in accordance with 43 CFR 3162.6. There shall be a sign or marker with the name of the operator, lease serial number, well number, and surveyed description of the well.

- For information regarding production reporting, contact the Office of Natural Resources Revenue (ONRR) at www.ONRR.gov.
- In accordance with 43 CFR 3162.4-3, this well shall be reported on the "Monthly Report of Operations" (Oil and Gas Operations Report ((OGOR)) starting with the month in which operations commence and continue each month until the well is physically plugged and abandoned. This report shall be filed in duplicate, directly with the Minerals Management Service, P.O. Box 17110, Denver, Colorado 80217-0110, or call 1-800-525-7922 (303) 231-3650 for reporting information.
- Should the well be successfully completed for production, the BLM Vernal Field office must be
 notified when it is placed in a producing status. Such notification will be by written communication
 and must be received in this office by not later than the fifth business day following the date on
 which the well is placed on production. The notification shall provide, as a minimum, the following
 informational items:
 - o Operator name, address, and telephone number.
 - Well name and number.
 - Well location (¼¼, Sec., Twn, Rng, and P.M.).
 - Date well was placed in a producing status (date of first production for which royalty will be paid).
 - The nature of the well's production, (i.e., crude oil, or crude oil and casing head gas, or natural gas and entrained liquid hydrocarbons).
 - o The Federal or Indian lease prefix and number on which the well is located; otherwise the non-Federal or non-Indian land category, i.e., State or private.
 - o Unit agreement and/or participating area name and number, if applicable.
 - Communitization agreement number, if applicable.
- Any venting or flaring of gas shall be done in accordance with Notice to Lessees (NTL) 4A and needs prior approval from the BLM Vernal Field Office.
- All undesirable events (fires, accidents, blowouts, spills, discharges) as specified in NTL 3A will be reported to the BLM, Vernal Field Office. Major events, as defined in NTL3A, shall be reported verbally within 24 hours, followed by a written report within 15 days. "Other than Major Events" will be reported in writing within 15 days. "Minor Events" will be reported on the Monthly Report of Operations and Production.
- Whether the well is completed as a dry hole or as a producer, "Well Completion and Recompletion Report and Log" (BLM Form 3160-4) shall be submitted not later than 30 days after completion of

Page 6 of 7 Well: RW 5C1-23B 6/22/2012

the well or after completion of operations being performed, in accordance with 43 CFR 3162.4-1. Two copies of all logs run, core descriptions, and all other surveys or data obtained and compiled during the drilling, workover, and/or completion operations, shall be filed on BLM Form 3160-4. Submit with the well completion report a geologic report including, at a minimum, formation tops, and a summary and conclusions. Also include deviation surveys, sample descriptions, strip logs, core data, drill stem test data, and results of production tests if performed. Samples (cuttings, fluid, and/or gas) shall be submitted only when requested by the BLM, Vernal Field Office.

- All off-lease storage, off-lease measurement, or commingling on-lease or off-lease, shall have prior written approval from the BLM Vernal Field Office.
- Oil and gas meters shall be calibrated in place prior to any deliveries. The BLM Vernal Field Office
 Petroleum Engineers will be provided with a date and time for the initial meter calibration and all
 future meter proving schedules. A copy of the meter calibration reports shall be submitted to the
 BLM Vernal Field Office. All measurement facilities will conform to the API standards for liquid
 hydrocarbons and the AGA standards for natural gas measurement. All measurement points shall
 be identified as the point of sale or allocation for royalty purposes.
- A schematic facilities diagram as required by Onshore Oil & Gas Order No. 3 shall be submitted to the BLM Vernal Field Office within 30 days of installation or first production, whichever occurs first. All site security regulations as specified in Onshore Oil & Gas Order No. 3 shall be adhered to. All product lines entering and leaving hydrocarbon storage tanks will be effectively sealed in accordance with Onshore Oil & Gas Order No. 3.
- Any additional construction, reconstruction, or alterations of facilities, including roads, gathering lines, batteries, etc., which will result in the disturbance of new ground, shall require the filing of a suitable plan and need prior approval of the BLM Vernal Field Office. Emergency approval may be obtained orally, but such approval does not waive the written report requirement.
- No location shall be constructed or moved, no well shall be plugged, and no drilling or workover
 equipment shall be removed from a well to be placed in a suspended status without prior approval
 of the BLM Vernal Field Office. If operations are to be suspended for more than 30 days, prior
 approval of the BLM Vernal Field Office shall be obtained and notification given before resumption
 of operations.
- Pursuant to Onshore Oil & Gas Order No. 7, this is authorization for pit disposal of water produced from this well for a period of 90 days from the date of initial production. A permanent disposal method must be approved by this office and in operation prior to the end of this 90-day period. In order to meet this deadline, an application for the proposed permanent disposal method shall be submitted along with any necessary water analyses, as soon as possible, but no later than 45 days after the date of first production. Any method of disposal which has not been approved prior to the end of the authorized 90-day period will be considered as an Incident of Noncompliance and will be grounds for issuing a shut-in order until an acceptable manner for disposing of said water is provided and approved by this office.
- Unless the plugging is to take place immediately upon receipt of oral approval, the Field Office Petroleum Engineers must be notified at least 24 hours in advance of the plugging of the well, in order that a representative may witness plugging operations. If a well is suspended or abandoned, all pits must be fenced immediately until they are backfilled. The "Subsequent Report of

Page 7 of 7 Well: RW 5C1-23B 6/22/2012

Abandonment" (Form BLM 3160-5) must be submitted within 30 days after the actual plugging of the well bore, showing location of plugs, amount of cement in each, and amount of casing left in hole, and the current status of the surface restoration.

Sundry Number: 29585 API Well Number: 43047523120000

	FORM 9		
ı	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MINING	3	5.LEASE DESIGNATION AND SERIAL NUMBER: UTU082
SUNDR	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:		
	posals to drill new wells, significantly deep reenter plugged wells, or to drill horizontal n for such proposals.		7.UNIT or CA AGREEMENT NAME: RED WASH
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: RW 5C1-23B
2. NAME OF OPERATOR: QEP ENERGY COMPANY			9. API NUMBER: 43047523120000
3. ADDRESS OF OPERATOR: 11002 East 17500 South ,		DNE NUMBER: 3-3068 Ext	9. FIELD and POOL or WILDCAT: RED WASH
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1759 FSL 2106 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH	HP, RANGE, MERIDIAN: 23 Township: 07.0S Range: 23.0E Meridian:	S	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICATE N	IATURE OF NOTICE, REPOR	T, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	_ ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:		CHANGE TUBING	CHANGE WELL NAME
SUBSEQUENT REPORT		COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
Date of Work Completion:		FRACTURE TREAT	☐ NEW CONSTRUCTION
		PLUG AND ABANDON	☐ PLUG BACK
SPUD REPORT Date of Spud:		RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
9/2/2012		SIDETRACK TO REPAIR WELL	L TEMPORARY ABANDON
DRILLING REPORT	L TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
	WILDCAT WELL DETERMINATION	OTHER	OTHER:
ON 9/2/2012 - SET	COMPLETED OPERATIONS. Clearly show all per 40' OF 16" CONDUCTOR PIPE. READY MIX.	CEMENTED WITH	epths, volumes, etc. Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY September 05, 2012
NAME (PLEASE PRINT) Valyn Davis	PHONE NUMBER 435 781-4369	TITLE Regulatory Affairs Analyst	
SIGNATURE N/A		DATE 9/4/2012	

CONFIDENTIAL

BLM - Vernal Field Office - Notification F	orm
Operator Rig Name/# Submitted By	Floyd Martine
Phone Number <u>435-828-03/5</u>	
Well Name/Number RW SC1-2313	•
Qtr/Qtrs Section 23 Township 25 Range 236	
Lease Serial Number <u>UTU082</u>	
API Number <u>430 475 2312 0000</u>	
Spud Notice – Spud is the initial spudding of the we out below a casing string.	
Date/Time September 2 2012 AM	PM 🔀
<u>Casing</u> – Please report time casing run starts, not of times.	ementing
Surface Casing Intermediate Casing Production Casing Liner	
Production Casing	
Liner	
Other	
Date/Time AM Description PM Description]
BOPE	_
Initial BOPE test at surface casing point	RECEIVED
BOPE test at intermediate casing point	SEP 0 1 2012
30 day BOPE test	DIV. OF OIL, GAS & MINING
Other	Star of Ciri avo & Milalia
Date/Time AM [PM [
Remarks Spud Conductor 40'-60'	·

STATE OF UTAH DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS AND MINING

ENTITY ACTION FORM

Operator:

QEP ENERGY COMPANY

Operator Account Number: N 3700

Address:

11002 EAST 17500 SOUTH

city VERNAL

zip 84078 state UT

Phone Number: (435) 781-4369

Well 1

API Number	Well	Name	QQ	Sec	Twp	Rng	County
4304752314	RW 15C4-23B		NESW	23	7 S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	S	pud Da	te	AND THE RESERVE OF THE PARTY OF	tity Assignment Effective Date
В	99999	18478	(9/1/2012	2	91	21.12012
Comments: WMM					COME		

18/-11 5

Comments: WMM	FD WMW				C		GNTIAL
В	99999	18478		9/2/201	2	91	3/ 13013
Action Code	Current Entity Number	New Entity Number	, s	oud Da	te		ity Assignment ffective Date
4304752311	RW 5B4-23B		NESW	23	78	23E	UINTAH
API Number	Well	Name	QQ	Sec	Twp	Rng	County

Well 3

API Number	Well	Name	QQ	Sec	Twp	Rng	County
4304752312	RW 5C1-23B		NESW	23	7 S	23E	UINTAH
Action Code	Current Entity Number	New Entity Number	ø	pud Dai	e		ity Assignment ffective Date
В	99999	18478	(9/2/2012	2	91	21/2012

Comments: WMMFD

-: nosw

ACTION CODES:

- A Establish new entity for new well (single well only)
- B Add new well to existing entity (group or unit well)
- C Re-assign well from one existing entity to another existing entity
- D Re-assign well from one existing entity to a new entity
- E Other (Explain in 'comments' section) RECEIVED

Valyn Davis

Name (Flease Print)

Signature

Title

Regulatory Affairs Analyst

9/10/2012

Date

(5/2000)

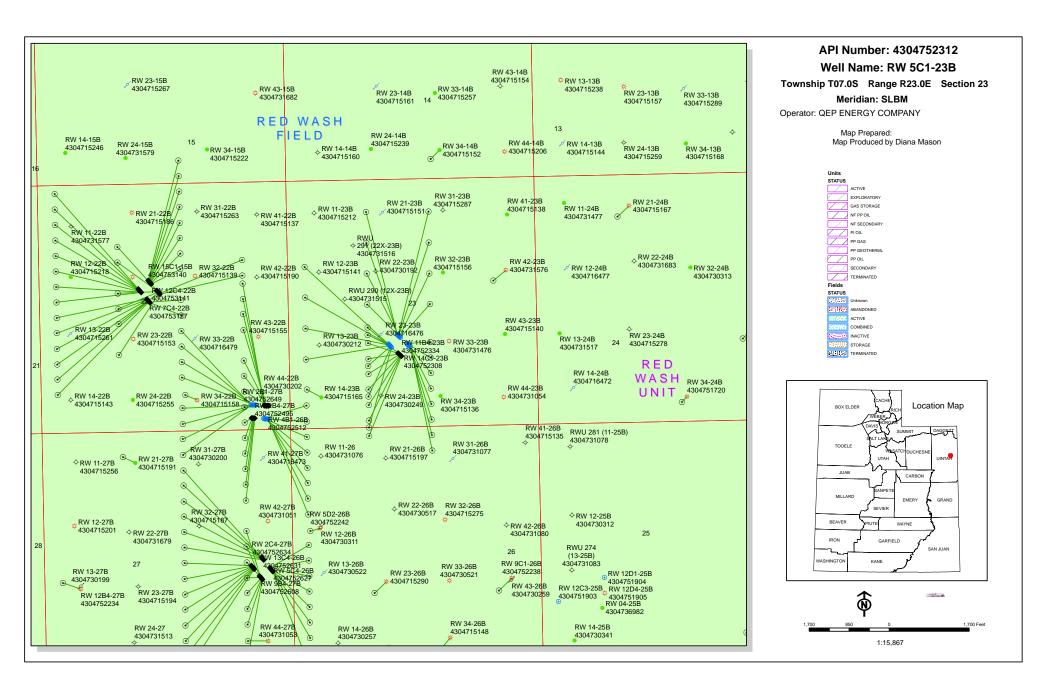
SEP 1 0 2012

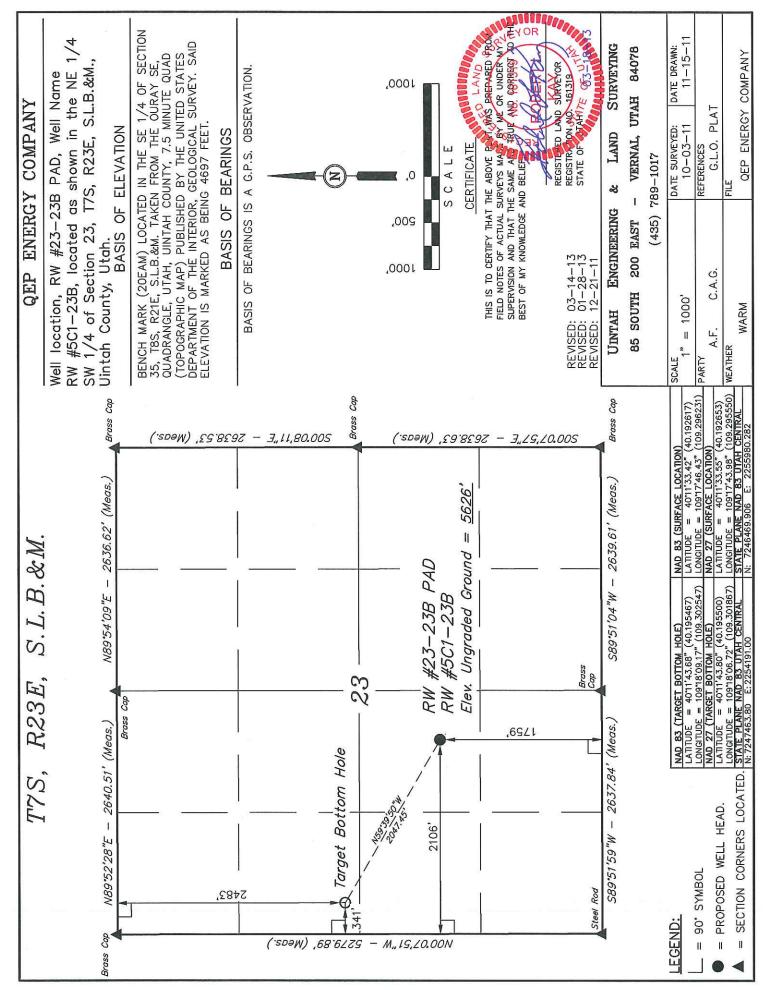
Sundry Number: 35822 API Well Number: 43047523120000

	STATE OF UTAH		FORM 9
ι	DEPARTMENT OF NATURAL RESOUR DIVISION OF OIL, GAS, AND MI		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU082
SUNDR	Y NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for pro current bottom-hole depth, I FOR PERMIT TO DRILL form	posals to drill new wells, significantly eenter plugged wells, or to drill horiz n for such proposals.	deepen existing wells below ontal laterals. Use APPLICATION	7.UNIT or CA AGREEMENT NAME: RED WASH
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: RW 5C1-23B
2. NAME OF OPERATOR: QEP ENERGY COMPANY			9. API NUMBER: 43047523120000
3. ADDRESS OF OPERATOR: 11002 East 17500 South,	Vernal, Ut, 84078 30	PHONE NUMBER: 3 308-3068 Ext	9. FIELD and POOL or WILDCAT: RED WASH
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1759 FSL 2106 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH	IIP, RANGE, MERIDIAN: 23 Township: 07.0S Range: 23.0E Mer	idian: S	STATE: UTAH
11. CHECI	APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPOI	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
Approximate date work will start:	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:			
	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
✓ DRILLING REPORT	TUBING REPAIR	☐ VENT OR FLARE ☐	☐ WATER DISPOSAL ☐
Report Date: 2/28/2013	WATER SHUTOFF	☐ SI TA STATUS EXTENSION	APD EXTENSION
	WILDCAT WELL DETERMINATION	OTHER	OTHER:
NO ACTIVITY ON TH	COMPLETED OPERATIONS. Clearly show	ITH OF FEBRUARY 2013.	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY March 25, 2013
NAME (PLEASE PRINT) Valyn Davis	PHONE NUM 435 781-4369	BER TITLE Regulatory Affairs Analyst	
SIGNATURE N/A		DATE 3/25/2013	

	STATE OF UTAH				FORM 9
[DEPARTMENT OF NATURAL RESOL DIVISION OF OIL, GAS, AND N		3	5.LEASE DES	SIGNATION AND SERIAL NUMBER:
SUNDR	Y NOTICES AND REPORT	S ON	WELLS	6. IF INDIAN,	ALLOTTEE OR TRIBE NAME:
	posals to drill new wells, significan eenter plugged wells, or to drill hor n for such proposals.			7.UNIT or CA	A AGREEMENT NAME:
1. TYPE OF WELL Gas Well				8. WELL NAM RW 5C1-2	ME and NUMBER: 3B
2. NAME OF OPERATOR: QEP ENERGY COMPANY				9. API NUMB 43047523	
3. ADDRESS OF OPERATOR: 11002 East 17500 South,	Vernal, Ut, 84078		NE NUMBER: -3068 Ext	9. FIELD and RED WASH	POOL or WILDCAT:
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1759 FSL 2106 FWL				COUNTY: UINTAH	
QTR/QTR, SECTION, TOWNSH	IIP, RANGE, MERIDIAN: 23 Township: 07.0S Range: 23.0E Mo	eridian:	S	STATE: UTAH	
11. CHEC	K APPROPRIATE BOXES TO INDIC	CATE N	ATURE OF NOTICE, REPOR	T, OR OTH	ER DATA
TYPE OF SUBMISSION			TYPE OF ACTION		
	ACIDIZE		ALTER CASING	☐ cas	ING REPAIR
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS		CHANGE TUBING	CHA	NGE WELL NAME
	CHANGE WELL STATUS		COMMINGLE PRODUCING FORMATIONS	☐ con	IVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	П	RACTURE TREAT	□ NEV	CONSTRUCTION
	OPERATOR CHANGE	P	PLUG AND ABANDON	PLU	G BACK
SPUD REPORT	PRODUCTION START OR RESUME		RECLAMATION OF WELL SITE	REC	OMPLETE DIFFERENT FORMATION
Date of Spud:	REPERFORATE CURRENT FORMATION	□ s	SIDETRACK TO REPAIR WELL	□ тем	IPORARY ABANDON
	TUBING REPAIR		ENT OR FLARE		TER DISPOSAL
✓ DRILLING REPORT Report Date:	WATER SHUTOFF		SI TA STATUS EXTENSION		EXTENSION
3/31/2013			I IA STATUS EXTENSION	_	EXTENSION
	WILDCAT WELL DETERMINATION		OTHER	OTHER:	
	COMPLETED OPERATIONS. Clearly sho			Acc Uta Oil, C FOR	es, etc. septed by the sh Division of Gas and Mining RECORD ONLY il 02, 2013
NAME (PLEASE PRINT) Valyn Davis	PHONE NU 435 781-4369	MBER	TITLE Regulatory Affairs Analyst		
SIGNATURE N/A			DATE 4/1/2013		

	STATE OF UTAH	-	FORM 9				
1	DEPARTMENT OF NATURAL RESOURCES DIVISION OF OIL, GAS, AND MININ		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU082				
SUNDR	Y NOTICES AND REPORTS O	N WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:				
Do not use this form for pro current bottom-hole depth, I FOR PERMIT TO DRILL form	posals to drill new wells, significantly de reenter plugged wells, or to drill horizont n for such proposals.	epen existing wells below al laterals. Use APPLICATION	7.UNIT or CA AGREEMENT NAME: RED WASH				
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: RW 5C1-23B				
2. NAME OF OPERATOR: QEP ENERGY COMPANY			9. API NUMBER: 43047523120000				
3. ADDRESS OF OPERATOR: 11002 East 17500 South ,		HONE NUMBER: 08-3068 Ext	9. FIELD and POOL or WILDCAT: RED WASH				
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1759 FSL 2106 FWL			COUNTY: UINTAH				
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 23 Township: 07.0S Range: 23.0E Meridia	n: S	STATE: UTAH				
11. CHECI	K APPROPRIATE BOXES TO INDICATE	NATURE OF NOTICE, REPOR	RT, OR OTHER DATA				
TYPE OF SUBMISSION		TYPE OF ACTION					
✓ NOTICE OF INTENT	ACIDIZE	ALTER CASING	CASING REPAIR				
Approximate date work will start: 4/1/2013	✓ CHANGE TO PREVIOUS PLANS CHANGE WELL STATUS □ CHANGE WELL	CHANGE TUBING COMMINGLE PRODUCING FORMATIONS	CHANGE WELL NAME CONVERT WELL TYPE				
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION				
	OPERATOR CHANGE PRODUCTION START OR RESUME	PLUG AND ABANDON RECLAMATION OF WELL SITE	☐ PLUG BACK ☐ RECOMPLETE DIFFERENT FORMATION				
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	TEMPORARY ABANDON				
	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL				
DRILLING REPORT Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION				
	WILDCAT WELL DETERMINATION	OTHER	OTHER:				
12. DESCRIBE PROPOSED OR COMPLETED OPERATIONS. Clearly show all pertinent details including dates, depths, volumes, etc. QEP ENERGY COMPANY WOULD LIKE TO OPTIMIZE THE BOTTOM HOLE SPACING OF THE MESA VERDE DEVELOPMENT. THEREFORE, QEP ENERGY COMPANY REQUESTS TO CHANGE THE BOTTOM HOLE LOCATION FOR THE ABOVE MENTIONED WELL. NEW BOTTOM HOLE FOOTAGES ARE: 2483' FNL, 341' FWL SWNW, SEC. 23, T7S, R23E LATITUDE: 40.195467, LONGITUDE: 109.302547. PLEASE SEE ATTACHED: LEGAL PLAT, DIRECTIONAL PLANS By:							
NAME (PLEASE PRINT) Valyn Davis	PHONE NUMBER	R TITLE Regulatory Affairs Analyst					
SIGNATURE	435 781-4369	DATE					
N/A		4/1/2013					







QEP ENERGY (UT)

Red Wash 23-23B PAD RW 5C1-23B

Original Hole

Plan: Plan ver.0

Standard Planning Report

20 March, 2013





Wellbore:

Design:

QEP Resources, Inc.

Planning Report



 Database:
 EDM_QEP

 Company:
 QEP ENERGY (UT)

 Project:
 Red Wash

 Site:
 23-23B PAD

 Well:
 RW 5C1-23B

Local Co-ordinate Reference: TVD Reference: MD Reference: North Reference: Survey Calculation Method: Well RW 5C1-23B RKB @ 5642.30usft (SST 54) RKB @ 5642.30usft (SST 54) True

rue

Minimum Curvature

Project Red Wash

Map System: US State Plane 1983 System Datum: Mean Sea Level

Geo Datum: North American Datum 1983

Original Hole Plan ver.0

Map Zone: Utah Central Zone Using geodetic scale factor

23-23B PAD Site Northing: 7,246,686.310 usft Site Position: Latitude: 40.193199 From: Мар Easting: 2,256,158.369 usft Longitude: -109.295575 **Position Uncertainty:** 0.00 usft Slot Radius: 13-3/16 " **Grid Convergence:** 1.41 9

Well RW 5C1-23B, **Well Position** +N/-S -211.97 usft Northing: 7,246,469.906 usft Latitude: 40.192617 +E/-W -183.38 usft Easting: 2,255,980.282 usft Longitude: -109.296231 **Position Uncertainty** 0.00 usft Wellhead Elevation: 5,625.30 usft **Ground Level:** 5,625.30 usft

Wellbore Original Hole Magnetics **Model Name** Sample Date Declination **Dip Angle** Field Strength (nT) (°) (°) IGRF2010 12/7/2011 10.96 66.05 52,408

Design Plan ver.0 **Audit Notes:** Tie On Depth: Version: Phase: PLAN 0.00 Vertical Section: Depth From (TVD) +N/-S +E/-W Direction (usft) (usft) (usft) (°) 0.00 0.00 0.00 300.46

Plan Sections										
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)	TFO (°)	Target
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00	
1,559.37	17.19	300.46	1,546.54	64.86	-110.27	2.00	2.00	0.00	300.46	
7,476.34	17.19	300.46	7,199.28	951.28	-1,617.37	0.00	0.00	0.00	0.00	
8,622.17	0.00	0.00	8,328.00	1,037.76	-1,764.40	1.50	-1.50	0.00	180.00	
11,451.17	0.00	0.00	11,157.00	1,037.76	-1,764.40	0.00	0.00	0.00	0.00	

3/20/2013 11:38:32AM Page 2 COMPASS 5000.1 Build 65



Design:

QEP Resources, Inc.

Planning Report



Database: EDM_QEP

Company: QEP ENERGY (UT)

 Project:
 Red Wash

 Site:
 23-23B PAD

 Well:
 RW 5C1-23B

 Wellbore:
 Original Hole

Plan ver.0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well RW 5C1-23B

RKB @ 5642.30usft (SST 54) RKB @ 5642.30usft (SST 54)

True

Minimum Curvature

and Comment									
ned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00
100.00	0.00	0.00	100.00	0.00	0.00	0.00	0.00	0.00	0.00
200.00	0.00	0.00	200.00	0.00	0.00	0.00	0.00	0.00	0.00
300.00	0.00	0.00	300.00	0.00	0.00	0.00	0.00	0.00	0.00
400.00	0.00	0.00	400.00	0.00	0.00	0.00	0.00	0.00	0.00
500.00	0.00	0.00	500.00	0.00	0.00	0.00	0.00	0.00	0.00
600.00	0.00	0.00	600.00	0.00	0.00	0.00	0.00	0.00	0.00
700.00	0.00	0.00	700.00	0.00	0.00	0.00	0.00	0.00	0.00
800.00	2.00	300.46	799.98	0.88	-1.50	1.75	2.00	2.00	0.00
900.00	4.00	300.46	899.84	3.54	-6.02	6.98	2.00	2.00	0.00
1,000.00	6.00	300.46	999.45	7.96	-13.53	15.69	2.00	2.00	0.00
1,100.00	8.00	300.46	1,098.70	14.13	-24.03	27.88	2.00	2.00	0.00
1,200.00	10.00	300.46	1,197.47	22.06	-37.51	43.52	2.00	2.00	0.00
1,300.00	12.00	300.46	1,295.62	31.74	-53.96	62.60	2.00	2.00	0.00
1,400.00	14.00	300.46	1,393.06	43.14	-73.35	85.10	2.00	2.00	0.00
			1.489.64						
1,500.00	16.00	300.46	,	56.26	-95.66	110.98	2.00	2.00	0.00
1,559.37	17.19	300.46	1,546.54	64.86	-110.27	127.93	2.00	2.00	0.00
1,600.00	17.19	300.46	1,585.35	70.95	-120.62	139.94	0.00	0.00	0.00
1,700.00	17.19	300.46	1,680.89	85.93	-146.09	169.49	0.00	0.00	0.00
1,800.00	17.19	300.46	1,776.42	100.91	-171.56	199.04	0.00	0.00	0.00
1,900.00	17.19	300.46	1,871.96	115.89	-197.03	228.59	0.00	0.00	0.00
2,000.00	17.19	300.46	1,967.49	130.87	-222.50	258.14	0.00	0.00	0.00
2,100.00	17.19	300.46	2,063.03	145.85	-247.97	287.69	0.00	0.00	0.00
2,200.00	17.19	300.46	2,158.56	160.83	-273.45	317.24	0.00	0.00	0.00
2,300.00	17.19	300.46	2,254.10	175.81	-298.92	346.79	0.00	0.00	0.00
2,400.00	17.19	300.46	2,349.63	190.79	-324.39	376.34	0.00	0.00	0.00
2,500.00	17.19	300.46	2,445.16	205.77	-349.86	405.89	0.00	0.00	0.00
2,600.00	17.19	300.46	2,540.70	220.76	-375.33	435.44	0.00	0.00	0.00
2,700.00	17.19	300.46	2,636.23	235.74	-400.80	464.99	0.00	0.00	0.00
2,800.00	17.19	300.46	2,731.77	250.72	-426.27	494.53	0.00	0.00	0.00
2,900.00	17.19	300.46	2,827.30	265.70	-451.74	524.08	0.00	0.00	0.00
2,976.10	17.19	300.46	2,900.00	277.10	-471.12	546.57	0.00	0.00	0.00
Green River 3.000.00	17.10	200.46	2 022 04	200.60	477.04	EE2 62	0.00	0.00	0.00
3,000.00	17.19 17.19	300.46 300.46	2,922.84 3,018.37	280.68 295.66	-477.21 -502.68	553.63 583.18	0.00 0.00	0.00 0.00	0.00 0.00
3,181.26	17.19	300.46	3,016.37	307.83	-502.66 -523.38	607.20	0.00	0.00	0.00
Top of Birds		500.40	5,530.00	557.55	020.00	001.20	0.00	0.00	0.00
•									
3,200.00	17.19	300.46	3,113.90	310.64	-528.15	612.73	0.00	0.00	0.00
3,300.00	17.19	300.46	3,209.44	325.62	-553.62	642.28	0.00	0.00	0.00
3,400.00	17.19	300.46	3,304.97	340.60	-579.09	671.83	0.00	0.00	0.00
3,426.20	17.19	300.46	3,330.00	344.53	-585.77	679.57	0.00	0.00	0.00
Base of Bird		200.40	0.400.54	255.50	004.50	704.00	0.00	0.00	0.00
3,500.00	17.19	300.46	3,400.51	355.58	-604.56	701.38	0.00	0.00	0.00
3,600.00	17.19	300.46	3,496.04	370.57	-630.04	730.93	0.00	0.00	0.00
3,700.00	17.19	300.46	3,591.58	385.55	-655.51	760.48	0.00	0.00	0.00
3,734.99	17.19	300.46	3,625.00	390.79	-664.42	770.82	0.00	0.00	0.00
Mahogony B	Bench								
3,787.32	17.19	300.46	3,675.00	398.63	-677.75	786.29	0.00	0.00	0.00
7 5/8"									
3,800.00	17.19	300.46	3,687.11	400.53	-680.98	790.03	0.00	0.00	0.00
3,900.00	17.19	300.46	3,782.65	415.51	-706.45	819.58	0.00	0.00	0.00
4,000.00	17.19	300.46	3,878.18	430.49	-731.92	849.13	0.00	0.00	0.00
4,100.00	17.19	300.46	3,973.71	445.47	-757.32 -757.39	878.68	0.00	0.00	0.00
4,200.00	17.19	300.46	4,069.25	460.45	-737.39 -782.86	908.23	0.00	0.00	0.00



Design:

QEP Resources, Inc.

Planning Report



Database: EDM_QEP

Company: QEP ENERGY (UT)

Project: Red Wash
Site: 23-23B PAD
Well: RW 5C1-23B
Wellbore: Original Hole

Plan ver.0

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well RW 5C1-23B

RKB @ 5642.30usft (SST 54) RKB @ 5642.30usft (SST 54)

True

Minimum Curvature

ign:	Plan ver.0								
anned Survey									
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,300.00	17.19	300.46	4,164.78	475.43	-808.33	937.78	0.00	0.00	0.00
4,400.00	17.19	300.46	4,260.32	490.41	-833.80	967.33	0.00	0.00	0.00
4,500.00	17.19	300.46	4,355.85	505.39	-859.27	996.88	0.00	0.00	0.00
4,600.00	17.19	300.46	4,451.39	520.38	-884.74	1,026.43	0.00	0.00	0.00
4,700.00	17.19	300.46	4,546.92	535.36	-910.21	1,055.98	0.00	0.00	0.00
4,800.00	17.19	300.46	4,642.45	550.34	-935.68	1,035.53	0.00	0.00	0.00
4,000.00	17.13	300.40	4,042.43	330.34	-900.00	1,000.00	0.00	0.00	0.00
4,900.00	17.19	300.46	4,737.99	565.32	-961.15	1,115.08	0.00	0.00	0.00
5,000.00	17.19	300.46	4,833.52	580.30	-986.63	1,144.63	0.00	0.00	0.00
5,100.00	17.19	300.46	4,929.06	595.28	-1,012.10	1,174.18	0.00	0.00	0.00
5,200.00	17.19	300.46	5,024.59	610.26	-1,037.57	1,203.73	0.00	0.00	0.00
5,300.00	17.19	300.46	5,120.13	625.24	-1,063.04	1,233.28	0.00	0.00	0.00
5,400.00	17.19	300.46	5,215.66	640.22	-1,088.51	1,262.83	0.00	0.00	0.00
5,500.00	17.19	300.46	5,311.19	655.20	-1,113.98	1,292.38	0.00	0.00	0.00
5,600.00	17.19	300.46	5,406.73	670.19	-1,139.45	1,321.93	0.00	0.00	0.00
5,700.00	17.19	300.46	5,502.26	685.17	-1,164.92	1,351.48	0.00	0.00	0.00
5,741.59	17.19	300.46	5,542.00	691.40	-1,175.51	1,363.77	0.00	0.00	0.00
Base of Mod	Saline								
5,800.00	17.19	300.46	5.597.80	700.15	-1,190.39	1,381.03	0.00	0.00	0.00
5,900.00	17.19	300.46	5,693.33	715.13	-1,215.86	1,410.58	0.00	0.00	0.00
6,000.00	17.19	300.46	5.788.87	730.11	-1,241.33	1,440.13	0.00	0.00	0.00
6,100.00	17.19	300.46	5,884.40	745.09	-1,266.80	1,469.68	0.00	0.00	0.00
6,200.00	17.19	300.46	5,979.94	760.07	-1,292.27	1,499.23	0.00	0.00	0.00
6,300.00	17.19	300.46	6,075.47	775.05	-1,317.74	1,528.78	0.00	0.00	0.00
6,351.85	17.19	300.46	6,125.00	782.82	-1,330.95	1,544.10	0.00	0.00	0.00
Wasatch									
6,400.00	17.19	300.46	6,171.00	790.03	-1,343.22	1,558.33	0.00	0.00	0.00
6,500.00	17.19	300.46	6,266.54	805.01	-1,368.69	1,587.88	0.00	0.00	0.00
6,600.00	17.19	300.46	6,362.07	820.00	-1,394.16	1,617.43	0.00	0.00	0.00
6,700.00	17.19	300.46	6,457.61	834.98	-1,419.63	1,646.98	0.00	0.00	0.00
6,800.00	17.19	300.46	6,553.14	849.96	-1,445.10	1,676.53	0.00	0.00	0.00
6,900.00	17.19	300.46	6,648.68	864.94	-1,470.57	1,706.08	0.00	0.00	0.00
7,000.00	17.19	300.46	6,744.21	879.92	-1,496.04	1,735.62	0.00	0.00	0.00
7,100.00	17.19	300.46	6,839.74	894.90	-1,521.51	1,765.17	0.00	0.00	0.00
7,200.00	17.19	300.46	6,935.28	909.88	-1,546.98	1,794.72	0.00	0.00	0.00
7,300.00	17.19	300.46	7,030.81	924.86	-1,572.45	1,824.27	0.00	0.00	0.00
7,400.00	17.19	300.46	7,126.35	939.84	-1,597.92	1,853.82	0.00	0.00	0.00
7,476.34	17.19	300.46	7,199.28	951.28	-1,617.37	1,876.38	0.00	0.00	0.00
7,500.00	16.83	300.46	7,221.90	954.79	-1,623.33	1,883.30	1.50	-1.50	0.00
7,600.00	15.33	300.46	7,317.99	968.83	-1,647.21	1,911.01	1.50	-1.50	0.00
7,700.00	13.83	300.46	7,414.76	981.60	-1,668.91	1,936.18	1.50	-1.50	0.00
7,800.00	12.33	300.46	7,512.16	993.07	-1,688.42	1,958.82	1.50	-1.50	0.00
7,900.00	10.83	300.46	7,610.13	1,003.25	-1,705.73	1,938.89	1.50	-1.50 -1.50	0.00
8,000.00	9.33	300.46	7,610.13	1,003.25	-1,705.73 -1,720.82	1,976.69	1.50	-1.50 -1.50	0.00
8,100.00	7.83	300.46	7,807.46	1,019.69	-1,733.68	2,011.32	1.50	-1.50	0.00
8,200.00	6.33	300.46	7,906.69	1,025.94	-1,744.31	2,023.65	1.50	-1.50	0.00
8,300.00	4.83	300.46	8,006.21	1,030.87	-1,752.69	2,033.38	1.50	-1.50	0.00
8,400.00	3.33	300.46	8,105.96	1,034.48	-1,758.83	2,040.50	1.50	-1.50	0.00
8,500.00	1.83	300.46	8,205.85	1,036.77	-1,762.71	2,045.01	1.50	-1.50	0.00
8,600.00	0.33	300.46	8,305.83	1,037.73	-1,764.34	2,046.89	1.50	-1.50	0.00
8,622.17	0.00	0.00	8,328.00	1,037.76	-1,764.40	2,046.96	1.50	-1.50	0.00
Mesaverde									
8,700.00	0.00	0.00	8,405.83	1,037.76	-1,764.40	2,046.96	0.00	0.00	0.00
8,800.00	0.00	0.00	8,505.83	1,037.76	-1,764.40	2,046.96	0.00	0.00	0.00



QEP Resources, Inc.

Planning Report



Database: Company: EDM_QEP

QEP ENERGY (UT)

Project: Red Wash Site: 23-23B PAD

Well: RW 5C1-23B
Wellbore: Original Hole
Design: Plan ver.0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well RW 5C1-23B

RKB @ 5642.30usft (SST 54) RKB @ 5642.30usft (SST 54)

True

Minimum Curvature

Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
8,900.00	0.00	0.00	8,605.83	1,037.76	-1,764.40	2,046.96	0.00	0.00	0.00
9,000.00 9,100.00 9,200.00 9,300.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	8,705.83 8,805.83 8,905.83 9,005.83	1,037.76 1,037.76 1,037.76 1,037.76	-1,764.40 -1,764.40 -1,764.40 -1,764.40	2,046.96 2,046.96 2,046.96 2,046.96	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00
9,400.00	0.00	0.00	9,105.83	1,037.76	-1,764.40	2,046.96	0.00	0.00	0.00
9,500.00 9,600.00 9,700.00 9,800.00 9,900.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	9,205.83 9,305.83 9,405.83 9,505.83 9,605.83	1,037.76 1,037.76 1,037.76 1,037.76 1,037.76	-1,764.40 -1,764.40 -1,764.40 -1,764.40 -1,764.40	2,046.96 2,046.96 2,046.96 2,046.96 2,046.96	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
10,000.00 10,100.00 10,200.00 10,300.00 10,400.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	9,705.83 9,805.83 9,905.83 10,005.83 10,105.83	1,037.76 1,037.76 1,037.76 1,037.76 1,037.76	-1,764.40 -1,764.40 -1,764.40 -1,764.40 -1,764.40	2,046.96 2,046.96 2,046.96 2,046.96 2,046.96	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00	0.00 0.00 0.00 0.00 0.00
10,500.00 10,600.00 10,696.17	0.00 0.00 0.00	0.00 0.00 0.00	10,205.83 10,305.83 10,402.00	1,037.76 1,037.76 1,037.76	-1,764.40 -1,764.40 -1,764.40	2,046.96 2,046.96 2,046.96	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
Neslen					. =				
10,700.00 10,800.00	0.00 0.00	0.00 0.00	10,405.83 10,505.83	1,037.76 1,037.76	-1,764.40 -1,764.40	2,046.96 2,046.96	0.00 0.00	0.00 0.00	0.00 0.00
10,900.00 11,000.00 11,066.17	0.00 0.00 0.00	0.00 0.00 0.00	10,605.83 10,705.83 10,772.00	1,037.76 1,037.76 1,037.76	-1,764.40 -1,764.40 -1,764.40	2,046.96 2,046.96 2,046.96	0.00 0.00 0.00	0.00 0.00 0.00	0.00 0.00 0.00
Lower Nesle 11,100.00 11,200.00	0.00 0.00	0.00 0.00	10,805.83 10,905.83	1,037.76 1,037.76	-1,764.40 -1,764.40	2,046.96 2,046.96	0.00 0.00	0.00 0.00	0.00 0.00
11,251.17	0.00	0.00	10,957.00	1,037.76	-1,764.40	2,046.96	0.00	0.00	0.00
Sego 11,300.00 11,400.00	0.00 0.00	0.00 0.00	11,005.83 11,105.83	1,037.76 1,037.76	-1,764.40 -1,764.40	2,046.96 2,046.96	0.00 0.00	0.00	0.00 0.00

Design Targets									
Target Name - hit/miss target - Shape	Dip Angle	Dip Dir. (°)	TVD (usft)	+N/-S (usft)	+E/-W (usft)	Northing (usft)	Easting (usft)	Latitude	Longitude
RW 5C1-23B - plan hits target cent - Circle (radius 150.0		0.00	8,328.00	1,037.76	-1,764.40	7,247,463.800	2,254,191.000	40.195466	-109.302547

Casing Points						
	Measured Depth	Vertical Depth		Casing Diameter	Hole Diameter	
	(usft)	(usft)	Name	(")	(")	
	3,787.32	3,675.00 7 5/8"		7-5/8	9-7/8	



QEP Resources, Inc.

Planning Report



Database: EDM_QEP

Company: QEP ENERGY (UT)
Project: Red Wash

 Site:
 23-23B PAD

 Well:
 RW 5C1-23B

 Wellbore:
 Original Hole

 Design:
 Plan ver.0

Local Co-ordinate Reference:

TVD Reference:
MD Reference:
North Reference:

Survey Calculation Method:

Well RW 5C1-23B

RKB @ 5642.30usft (SST 54) RKB @ 5642.30usft (SST 54)

True

Minimum Curvature

			Lithology	Dip (°)	Dip Direction (°)
	.00 Green River			\ /	()
191 26 3 00					
, 101.20 3,09	5.00 Top of Birds Nest				
,426.20 3,33	.00 Base of Birds Nest				
,734.99 3,62	i.00 Mahogony Bench				
5,741.59 5,542	2.00 Base of Mod Saline				
,351.85 6,12	i.00 Wasatch				
5,622.17 8,32	3.00 Mesaverde				
,696.17 10,40	.00 Neslen				
,066.17 10,772	.00 Lower Neslen				
,251.17 10,95	'.00 Sego				
,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	426.20 3,330 734.99 3,625 741.59 5,542 351.85 6,125 622.17 8,328 696.17 10,402 066.17 10,772	426.20 3,330.00 Base of Birds Nest 734.99 3,625.00 Mahogony Bench 741.59 5,542.00 Base of Mod Saline 351.85 6,125.00 Wasatch 622.17 8,328.00 Mesaverde 696.17 10,402.00 Neslen 066.17 10,772.00 Lower Neslen	426.20 3,330.00 Base of Birds Nest 734.99 3,625.00 Mahogony Bench 741.59 5,542.00 Base of Mod Saline 351.85 6,125.00 Wasatch 622.17 8,328.00 Mesaverde 696.17 10,402.00 Neslen 066.17 10,772.00 Lower Neslen	426.20 3,330.00 Base of Birds Nest 734.99 3,625.00 Mahogony Bench 741.59 5,542.00 Base of Mod Saline 351.85 6,125.00 Wasatch 622.17 8,328.00 Mesaverde 696.17 10,402.00 Neslen 066.17 10,772.00 Lower Neslen	426.20 3,330.00 Base of Birds Nest 734.99 3,625.00 Mahogony Bench 741.59 5,542.00 Base of Mod Saline 351.85 6,125.00 Wasatch 622.17 8,328.00 Mesaverde 696.17 10,402.00 Neslen 066.17 10,772.00 Lower Neslen



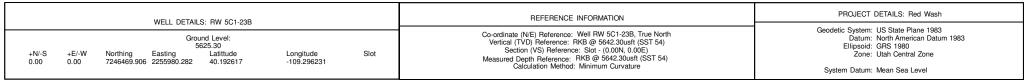
Company Name: QEP ENERGY (UT)

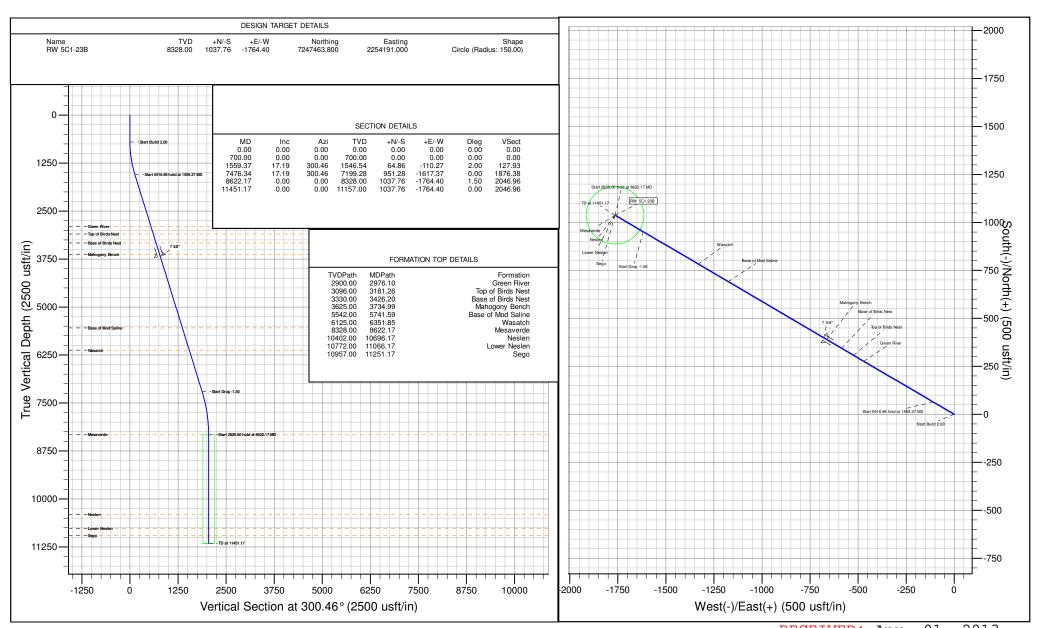
Azimuths to True North.

Azimuths to True North. 10,95°

Magnetic Field
Strength: 52488.4sn1*
Dip Arapic 66,05°
Date: 12/7/2011
Model: KSRF2010

Project: Red Wash Site: 23-23B PAD Well: RW 5C1-23B Wellbore: Original Hole Design: Plan ver.0





Sundry Number: 37213 API Well Number: 43047523120000

	STATE OF UTAH		FORM 9
ι	DEPARTMENT OF NATURAL RESOURG DIVISION OF OIL, GAS, AND MI		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU082
SUNDR	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
Do not use this form for pro current bottom-hole depth, I FOR PERMIT TO DRILL form	oposals to drill new wells, significantly reenter plugged wells, or to drill horizon n for such proposals.	deepen existing wells below ontal laterals. Use APPLICATION	7.UNIT or CA AGREEMENT NAME: RED WASH
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: RW 5C1-23B
2. NAME OF OPERATOR: QEP ENERGY COMPANY			9. API NUMBER: 43047523120000
3. ADDRESS OF OPERATOR: 11002 East 17500 South ,	Vernal, Ut, 84078 303	PHONE NUMBER: 3 308-3068 Ext	9. FIELD and POOL or WILDCAT: RED WASH
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1759 FSL 2106 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 23 Township: 07.0S Range: 23.0E Merio	dian: S	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
Approximate date work will start:	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	NEW CONSTRUCTION
	OPERATOR CHANGE	PLUG AND ABANDON	PLUG BACK
	PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION
SPUD REPORT Date of Spud:			
	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
✓ DRILLING REPORT	L TUBING REPAIR	☐ VENT OR FLARE	☐ WATER DISPOSAL ☐
Report Date: 4/30/2013	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
470072010	WILDCAT WELL DETERMINATION	OTHER	OTHER:
NO ACTIVITY ON	COMPLETED OPERATIONS. Clearly show THIS WELL DURING THE MO	ONTH OF APRIL 2013.	Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ONLY May 02, 2013
NAME (PLEASE PRINT) Valyn Davis	PHONE NUME 435 781-4369	BER TITLE Regulatory Affairs Analyst	
SIGNATURE N/A		DATE 5/2/2013	

RECEIVED: May. 02, 2013

Sundry Number: 38973 API Well Number: 43047523120000

	STATE OF UTAH				FORM 9
1	DEPARTMENT OF NATURAL RESO DIVISION OF OIL, GAS, AND		i	5.LEASE DESIGNATION AND S UTU082	ERIAL NUMBER:
SUNDR	Y NOTICES AND REPORT	rs on	WELLS	6. IF INDIAN, ALLOTTEE OR T	RIBE NAME:
	posals to drill new wells, significar reenter plugged wells, or to drill ho n for such proposals.			7.UNIT or CA AGREEMENT NA RED WASH	ME:
1. TYPE OF WELL Gas Well				8. WELL NAME and NUMBER: RW 5C1-23B	
2. NAME OF OPERATOR: QEP ENERGY COMPANY				9. API NUMBER: 43047523120000	
3. ADDRESS OF OPERATOR: 11002 East 17500 South,	Vernal, Ut, 84078		NE NUMBER: -3068 Ext	9. FIELD and POOL or WILDCA RED WASH	AT:
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1759 FSL 2106 FWL				COUNTY: UINTAH	
QTR/QTR, SECTION, TOWNSH	HP, RANGE, MERIDIAN: 23 Township: 07.0S Range: 23.0E N	1eridian: \$	S	STATE: UTAH	
11. CHECI	K APPROPRIATE BOXES TO INDI	CATE NA	ATURE OF NOTICE, REPOR	T, OR OTHER DATA	
TYPE OF SUBMISSION			TYPE OF ACTION		
	ACIDIZE		LTER CASING	CASING REPAIR	
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS	□ c	HANGE TUBING	CHANGE WELL NAME	
	CHANGE WELL STATUS	□ c	OMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE	
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	☐ F	RACTURE TREAT	NEW CONSTRUCTION	
·	OPERATOR CHANGE	□ р	LUG AND ABANDON	PLUG BACK	
	PRODUCTION START OR RESUME		ECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FO	ORMATION
SPUD REPORT Date of Spud:	REPERFORATE CURRENT FORMATION		IDETRACK TO REPAIR WELL	TEMPORARY ABANDON	
				WATER DISPOSAL	
✓ DRILLING REPORT	L TUBING REPAIR		ENT OR FLARE		
Report Date: 5/31/2013	WATER SHUTOFF	∟ s	I TA STATUS EXTENSION	APD EXTENSION	
3,3.7.23.3	WILDCAT WELL DETERMINATION	□ 0	THER	OTHER:	
	COMPLETED OPERATIONS. Clearly sh	-		Accepted by the Utah Division of Oil, Gas and Minir FOR RECORD June 12, 2013	f ng
NAME (PLEASE PRINT)	PHONE NU	JMBER	TITLE		
Valyn Davis	435 781-4369		Regulatory Affairs Analyst		
SIGNATURE N/A			DATE 6/10/2013		

	STATE OF UTAH				FORM 9
1	DEPARTMENT OF NATURAL RESOL DIVISION OF OIL, GAS, AND I		i	5.LEASE DESIGNATION AND SERIAL NUTU082	NUMBER:
SUNDR	Y NOTICES AND REPORT	S ON	WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NA	AME:
	posals to drill new wells, significan reenter plugged wells, or to drill hon n for such proposals.			7.UNIT or CA AGREEMENT NAME: RED WASH	
1. TYPE OF WELL Gas Well				8. WELL NAME and NUMBER: RW 5C1-23B	
2. NAME OF OPERATOR: QEP ENERGY COMPANY				9. API NUMBER: 43047523120000	
3. ADDRESS OF OPERATOR: 11002 East 17500 South,	Vernal, Ut, 84078		NE NUMBER: -3068 Ext	9. FIELD and POOL or WILDCAT: RED WASH	
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1759 FSL 2106 FWL				COUNTY: UINTAH	
QTR/QTR, SECTION, TOWNSH	HP, RANGE, MERIDIAN: 23 Township: 07.0S Range: 23.0E M	leridian:	S	STATE: UTAH	
11. CHECI	K APPROPRIATE BOXES TO INDI	CATE N	ATURE OF NOTICE, REPOR	RT, OR OTHER DATA	
TYPE OF SUBMISSION			TYPE OF ACTION		
	ACIDIZE		LTER CASING	CASING REPAIR	
NOTICE OF INTENT Approximate date work will start:	CHANGE TO PREVIOUS PLANS		HANGE TUBING	CHANGE WELL NAME	
SUBSEQUENT REPORT	CHANGE WELL STATUS		OMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE	
Date of Work Completion:	DEEPEN	∐ F	RACTURE TREAT	NEW CONSTRUCTION	
	OPERATOR CHANGE	∐ P	LUG AND ABANDON	PLUG BACK	
SPUD REPORT Date of Spud:	PRODUCTION START OR RESUME	□ R	ECLAMATION OF WELL SITE	RECOMPLETE DIFFERENT FORMATION	N
23.0 5. 34.3.	REPERFORATE CURRENT FORMATION	□s	IDETRACK TO REPAIR WELL	TEMPORARY ABANDON	
	TUBING REPAIR	□ v	ENT OR FLARE	WATER DISPOSAL	
DRILLING REPORT Report Date:	WATER SHUTOFF	□s	I TA STATUS EXTENSION	APD EXTENSION	
6/30/2013	WILDCAT WELL DETERMINATION		THER	OTHER:	
	COMPLETED OPERATIONS. Clearly sh			Accepted by the Utah Division of Oil, Gas and Mining FOR RECORD ON July 02, 2013	ILY
NAME (PLEASE PRINT) Valyn Davis	PHONE NU 435 781-4369	IMBER	TITLE Regulatory Affairs Analyst		
SIGNATURE N/A			DATE 7/2/2013		

RECEIVED: Jul. 02, 2013

BLM - Vernal Field Office - Notification Form

-	rator <u>QEP </u>	
Well Qtr/ Leas API	I Name/Number <u>RW 5c1-23B</u> Qtr <u>NE/SW</u> Section <u>23</u> Township <u>7 Section 23</u> Township <u>7 Section 23</u> Township <u>7 Section 30</u> Number 43047523120000 Number 43047523120000 Section 23 Section 23 Section 24 Notice — Spud is the initial spudding of the webelow a casing string.	 _ Range 23 E_
	Date/Time AM [РМ 🗌
time	ng – Please report time casing run starts, not es. Surface Casing Intermediate Casing Production Casing Liner Other	cementing
	Date/Time7/27/201301:00	AM 🗌 PM 🗌
BOP	Initial BOPE test at surface casing point BOPE test at intermediate casing point 30 day BOPE test Other	RECEIVED JUL 2 6 2013
	Date/Time AM PM	DIV. OF OIL, GAS & MINING



BLM - Vernal Field Office - Notification Form

	erator <u>QEP </u>	
_ Well Qtr/ Leas API	I Name/Number <u>RW 5c1-23B</u> 'Qtr <u>NE/SW</u> Section <u>23</u> Township <u>7 Section 23</u> See Serial Number <u>UTU 082</u> Number 43047523120000 <u>d Notice</u> – Spud is the initial spudding of the vertical below a casing string.	 _ Range 23 E
	Date/Time AM [РМ 🗌
time	ing – Please report time casing run starts, not es. Surface Casing Intermediate Casing Production Casing Liner Other	cementing
	Date/Time	AM 🗌 PM 🗌
<u>BOP</u>	Initial BOPE test at surface casing point BOPE test at intermediate casing point 30 day BOPE test Other	RECEIVED JUL 2 6 2013
	Date/Time AM PM	DIV. OF OIL, GAS & MINING

Remarks we are going to log with drill pipe and lay down drill pipe when coming out of hole with logs. We will start to run casing after pipe is layed down and logs are retrived.



BLM - Vernal Field Office - Notification Form

	erator <u>QEP </u>	
_ Well Qtr/ Leas API	I Name/Number <u>RW 5c1-23B</u> 'Qtr <u>NE/SW</u> Section <u>23</u> Township <u>7 Section 23</u> See Serial Number <u>UTU 082</u> Number 43047523120000 <u>d Notice</u> – Spud is the initial spudding of the vertical below a casing string.	 _ Range 23 E
	Date/Time AM [РМ 🗌
time	ing – Please report time casing run starts, not es. Surface Casing Intermediate Casing Production Casing Liner Other	cementing
	Date/Time	AM 🗌 PM 🗌
<u>BOP</u>	Initial BOPE test at surface casing point BOPE test at intermediate casing point 30 day BOPE test Other	RECEIVED JUL 2 6 2013
	Date/Time AM PM	DIV. OF OIL, GAS & MINING

Remarks we are going to log with drill pipe and lay down drill pipe when coming out of hole with logs. We will start to run casing after pipe is layed down and logs are retrived.

	STATE OF UTAH		FORM 9
ı	DEPARTMENT OF NATURAL RESOURCE DIVISION OF OIL, GAS, AND MIN		5.LEASE DESIGNATION AND SERIAL NUMBER: UTU082
SUNDR	RY NOTICES AND REPORTS	ON WELLS	6. IF INDIAN, ALLOTTEE OR TRIBE NAME:
	oposals to drill new wells, significantly reenter plugged wells, or to drill horizo n for such proposals.		7.UNIT or CA AGREEMENT NAME: RED WASH
1. TYPE OF WELL Gas Well			8. WELL NAME and NUMBER: RW 5C1-23B
2. NAME OF OPERATOR: QEP ENERGY COMPANY			9. API NUMBER: 43047523120000
3. ADDRESS OF OPERATOR: 11002 East 17500 South ,	Vernal, Ut, 84078 303	PHONE NUMBER: 3 308-3068 Ext	9. FIELD and POOL or WILDCAT: RED WASH
4. LOCATION OF WELL FOOTAGES AT SURFACE: 1759 FSL 2106 FWL			COUNTY: UINTAH
QTR/QTR, SECTION, TOWNSH	HIP, RANGE, MERIDIAN: 23 Township: 07.0S Range: 23.0E Merio	dian: S	STATE: UTAH
11. CHECI	K APPROPRIATE BOXES TO INDICA	TE NATURE OF NOTICE, REPOR	RT, OR OTHER DATA
TYPE OF SUBMISSION		TYPE OF ACTION	
	ACIDIZE	ALTER CASING	CASING REPAIR
NOTICE OF INTENT	CHANGE TO PREVIOUS PLANS	CHANGE TUBING	CHANGE WELL NAME
Approximate date work will start:	CHANGE WELL STATUS	COMMINGLE PRODUCING FORMATIONS	CONVERT WELL TYPE
SUBSEQUENT REPORT Date of Work Completion:	DEEPEN	FRACTURE TREAT	☐ NEW CONSTRUCTION
8/18/2013		PLUG AND ABANDON	PLUG BACK
	OPERATOR CHANGE		
SPUD REPORT Date of Spud:	▼ PRODUCTION START OR RESUME	RECLAMATION OF WELL SITE	☐ RECOMPLETE DIFFERENT FORMATION
	REPERFORATE CURRENT FORMATION	SIDETRACK TO REPAIR WELL	☐ TEMPORARY ABANDON
DRILLING REPORT	TUBING REPAIR	VENT OR FLARE	WATER DISPOSAL
Report Date:	WATER SHUTOFF	SI TA STATUS EXTENSION	APD EXTENSION
	WILDCAT WELL DETERMINATION	OTHER	OTHER:
THIS WELL COMMEN	COMPLETED OPERATIONS. Clearly show NCED PRODUCTION ON AUG	GUST 18, 2013 @7:00 A.M	
NAME (PLEASE PRINT) Benna Muth	PHONE NUMB 435 781-4320	BER TITLE Regulatory Assistant	
SIGNATURE N/A		DATE 8/19/2013	

(5/2000)

9.875 7.625 L-80 26.4 207 3,818 915 300 210					TMENT C	F NATU	UTAH JRAL RESC AS AND I		3			Ī	(high		anges) NATION AI	d/72 = 93	FC	ORM 8 BER:
1. TUPE OF MORE.													. 82	5 15850 VIII		R TRIE	E NAME	
NEW OF MARKER WELL	esteriorina en	20-1/ 645 SSS-1/6174E	PLETI	ON	OR RE	COM	IPLETIC	ON RI	EPORT	AND	LOG					**************************************		
1. NET OF MORE	1a. TYPE OF WELL		OIL WE		GAS WE		DRY		OTHER							T NAM	E	
2. AMERICA PORRATION OLEP ENERGY COMPANY 3. ACCRESSION OFFRANCE AT SUPPLEMENTATION OLEP ENERGY COMPANY 3. ACCRESSION OFFRANCE AT 304752312 TO RED WASH TO ACCRESSION OFFRANCE AT 304752312 TO RED WASH TO ACCRESSION OFFRANCE AT 5076 PSEL, 2106° FWL AT 100 PRODUCING RITERAN, REPORTED BLOWN NESW, 1759° FSL, 2106° FWL AT 100 PRODUCING RITERAN, REPORTED BLOWN NESW, 1759° FSL, 2106° FWL AT 100 PRODUCING RITERAN, REPORTED BLOWN NESW, 1759° FSL, 2106° FWL TO ALDEPTH SWINNY, 2515° FNL, 360° FWL 14. DATE SPUDDED 15. DATE TO, RECORD 16. DATE COMPARTICE 17. DESCRIPTION 17. SERVICION (DV) 17. SERVICION (DV) 18. DATE COMPARTICE 19. DATE COM		K:														ER:		
ADDRESS OF COMPANY A04752312 A050856 OF COMPANY A1002 E. 17500 S. CITY VERNAL STATE UT _ zn 84078 (435) 781-4320 TREADMONT OLD CAR MULCAT RED WASH TO THE SWY, 1759 FSL, 2106 FWL		LAIS. L	DEE EN	EP- 🗌	RE- EN	RY 🗌	DIFF. RESVR.		OTHER	8 <u></u>			1500	REAL PROPERTY	- CONSTITUTE			
11002 E. 17500 S.			MPAN	Y														
4. DOCATONOS VELL FOOTOCRESS AT SURPACE NESW, 1759'FSL, 2106'FWL AT TORADE NESW, 1759'FSL, 2106'FWL AT TORADE PROVIDED SELOX: NESW, 1759'FSL, 2106'FWL AT TORADE PROVIDED SELOX: NESW, 1759'FSL, 2106'FWL 12. COUNTY UINTAH 13. STATE UTAH 14. DATE SPUEDED 15. DATE TO REACHED 16. TOTAL DEPTH: SWNW, 2515'FNL, 360'FWL 17. DITAL DEPTH: NO 11,180 18. TOTAL DEPTH: NO 11,180 19. AUGUST TO PRODUCE 19. DATE TO REACHED 19. ELECTRICAS, HOW MANY? 20. IF MULTIPLE COMPLETIONS, HOW MANY? 21. DEPTH ROTE OF MO OTHER RECORD (Report all strings set in well) 22. TYPE ELECTRIC AND OTHER RECORD (Report all strings set in well) 23. CASSING AND UNDER RECORD (Report all strings set in well) 24. CASSING AND UNDER RECORD (Report all strings set in well) 25. TUBINO RECORD 26. TO 25. L=80 26. 4 20. DEPTH SET (MD) 27. PRODUCING NETWALS 28. TUBINO RECORD 29. AT UBINO RECORD 29. AT UBINO RECORD 20. DEPTH SET (MD) 21. DEPTH SET (MD) 22. DEPTH SET (MD) 23. AUGUST AND TYPE OF MATERIAL 24. TUBINO RECORD 25. DEPTH SET (MD) 26. DEPTH SET (MD) 27. DEPTH SET (MD) 28. AUGUST AND TYPE OF MATERIAL 29. DEPTH SET (MD) 29. SAUGUST DEPT			CIT	y VEI	RNAL	s	TATE UT	ZIP 840	078			20				ALDCA	T	
AT TOP PRODUCING INTERVAL REPORTED BELOW. NESW, 1759' FSL, 2106' FWL AT TOTAL DEPTH: SWNW, 2515' FNL, 360' FWL 12. COUNTY 13. STATE UINTAH 14. COUNTY 17. PLEVATIONS (DP. REKS, RT, GL): 7/25/2013 18. TOTAL DEPTH: MD 11,180 18. PULO BACK TD.: MD 17. READY TO PRODUCE ☑ 15. EAST TO REACHED 19/2/2012 19. TOTAL DEPTH: MD 11,180 18. PULO BACK TD.: MD 17. READY TO PRODUCE ☑ 15. EAST TO REACHED 17. TVD 10,874 17. ELEVATIONS (DP. REKS, RT, GL): 56,26 GL 10,974 10. TVD 10,874 10. TVD 10,874 11. TVD 10,8				El 3	106' EM								11. Q	TR/QTR, SI ERIDIAN:	ECTION, T	OWNS	HIP, RANG	Œ,
AT TOTAL DEPTILE SWNW, 2515 FNL, 360' FWL													NE	SW 2	23 75	3	23E	
ACTION CONTROL CONTR	AT TOP PRODU	JCING INTERVA	AL REPORT	TED BEL	ow: NE	SW, 1	759' FSL	, 2106	6' FWL									
9/2/2012	AT TOTAL DEP	TH: SWNV	N, 251	5' FN	L, 360'	FWL										1:		UTAH
TVD 10,874 TVD 10,874 TVD 22. TYPE ELECTRIC AND OTHER MECHANICAL LOSS RUN (Submit copy) of each) CBL 23. WAS WELL CORED? WAS DIST RUN? WAS DIST RUN? WAS DIST RUN? NO					HED: 16				ABANDONED		READY TO PR	ODUCE	7			, RKB,	RT, GL):	
22. TYPE ELECTRIC AND OTHER MECHANICAL LOGS RUN (Bubmit copy) of each) CBL 23. WAS WELL CORRED? WAS DET RUN? DIRECTIONAL SURVEY? NO	18. TOTAL DEPTH:	1 1,		1	9. PLUG BA	CK T.D.:	MD		20. IF ML	LTIPLE C	OMPLETIONS, I	HOW MAN	IY? * 2			MD		
WAS WELL CORED? NO YES (Submit analysis) (Submit copy) (Submit copy)	22 TYPE ELECTRI	HIGH PARTY	7000 10	CALLOG	CODIN/Out				<u> </u>	22						TVD		
24. CASING AND LINER RECORD (Report all strings set in well) HOLE SIZE SIZE/GRADE WEIGHT (Mr.L.) TOP (MD) BOTTOM (MD) STAGE CEMENTER CEMENT TYPE & NO. OF SACKS VOLUME (BBL) CEMENT TOP ** AMOUNT PULLED 12.25 7.825 L-80 26.4 0 207 3,818 915 300 210 9.875 7.625 L-80 26.4 207 3,818 915 300 210 6.75 4.5 HC		IC AND OTHER	MECHANI	CAL LOG	oo Kon (out	ини сору о	eacily			WAS WEL	RUN?		NO .	Z YES	: <u> </u>	(Subn	nit report)	
12.25	24. CASING AND L	INER RECORD	(Report al	II strings	set in well)								,,,,		To .	(0.00)		
9.875	HOLE SIZE	SIZE/GRAI	DE V	NEIGHT	(#/ft.)	TOP (MD) вотто	OM (MD)							CEMENT TO	OP **	AMOUN ⁻	T PULLED
9.875	12.25	7.625 L	-80	26.	4	0	2	07			MALE HALL	1111						
25. TUBING RECORD SIZE DEPTH SET (MD) PACKER SET (MD) SIZE DEPTH SET (MD) PACKER SET (MD) SIZE DEPTH SET (MD) PACKER SET (MD)	9.875	7.625 L	-80	26.	4	207	3,	818				915	30	0	210	à		
SIZE DEPTH SET (MD) PACKER SET (MD) SIZE DEPTH SET (MD) PACKER SET (MD) PACKER SET (MD)	6.75	4.5 H	IC	11.	6	0	11	,180			1	,10 <u>4</u> 5	37	1				
SIZE DEPTH SET (MD) PACKER SET (MD) SIZE DEPTH SET (MD) PACKER SET (MD) PACKER SET (MD)			Herif															
SIZE DEPTH SET (MD) PACKER SET (MD) SIZE DEPTH SET (MD) PACKER SET (MD) PACKER SET (MD)																		
SIZE DEPTH SET (MD) PACKER SET (MD) SIZE DEPTH SET (MD) PACKER SET (MD) PACKER SET (MD)									<u> </u>									
2.375 10,970	VESTAL DIRECTION OF THE PARTY O																	
26. PRODUCING INTERVALS FORMATION NAME TOP (MD) BOTTOM (MD) TOP (TVD) BOTTOM (TVD) INTERVAL (Top/Bot - MD) SIZE NO. HOLES PERFORATION STATUS (A) MESA VERDE 10,536 11,081 10,536 11,081 42 115 Open Squeezed Open Squeezed (C) (D) 26. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND TYPE OF MATERIAL 10,536 - 11,081 11,187 BBLS SLICKWATER; 244,774 LBS 30/50 SAND 29. ENCLOSED ATTACHMENTS: GEOLOGIC REPORT DST REPORT DIRECTIONAL SURVEY DIRECTIONAL SURVEY DIRECTIONAL SURVEY DIRECTIONAL SURVEY DEPTM		_		PACKE	ER SET (MD		SIZE	DEPTH	SET (MD)	PACKE	R SET (MD)	SI	ZE	DEP	TH SET (N	1D)	PACKER	SET (MD)
FORMATION NAME TOP (MD) BOTTOM (MD) TOP (TVD) BOTTOM (TVD) INTERVAL (Top/Bot - MD) SIZE NO. HOLES PERFORATION STATUS (A) MESA VERDE 10,536 11,081 10,536 11,081 .42 115 Open Squeezed (Description of the control of th		7750.00	970							PERFO	DATION DECO							
(A) MESA VERDE 10,536 11,081 10,536 11,081 .42 115 Open Squeezed (B) Open Squeezed (C) Open Squeezed (TOP (MD)	BOTTOM	(MD)	TOP (TVD)	I BOTTO					7F 1	NO HOLES	I PE	REOR	ATION STA	SUTA
(B)			- 50	- 2	Vol. 100 100 100	N 0	101 (110)	ВОТТО	- 22	proposite description	27 S			W selector	+ -	_		
(C) Open Squeezed Open Open Squeezed Open Squeezed Open Open Open Squeezed Open Open Open Open Open Open Open Open		INDL	10,0	,00	11,00	-		+		10,000	11,00		72	110		=	35	
(D) Open Squeezed 28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. DEPTH INTERVAL AMOUNT AND TYPE OF MATERIAL 10,536 - 11,081 11,187 BBLS SLICKWATER; 244,774 LBS 30/50 SAND 29. ENCLOSED ATTACHMENTS: 30. WELL STATUS:	-					-							-		2025	=	Day Inc.	
28. ACID, FRACTURE, TREATMENT, CEMENT SQUEEZE, ETC. DEPTH INTERVAL 10,536 - 11,081 11,187 BBLS SLICKWATER; 244,774 LBS 30/50 SAND 29. ENCLOSED ATTACHMENTS: BELECTRICAL/MECHANICAL LOGS GEOLOGIC REPORT DST REPORT DIRECTIONAL SURVEY						-			10				-			=		-
DEPTH INTERVAL 10,536 - 11,081 11,187 BBLS SLICKWATER; 244,774 LBS 30/50 SAND 29. ENCLOSED ATTACHMENTS: ELECTRICAL/MECHANICAL LOGS		IDE TOEATME	NT CEMEN	UT SOU											Open	_	Squeezea	Ш
10,536 - 11,081 11,187 BBLS SLICKWATER; 244,774 LBS 30/50 SAND 29. ENCLOSED ATTACHMENTS: BLECTRICAL/MECHANICAL LOGS	M. Andrewski		NI, CEME	VI SQUE	EZE, EIG.				AMOL	INIT ANID T	VDE OF MATE	2101					***************************************	
29. ENCLOSED ATTACHMENTS: GEOLOGIC REPORT DST REPORT DIRECTIONAL SURVEY DCM/	77.000-201-00-2	and statement		44.4	07 001	0.01.10						RIAL						
☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☑ DIRECTIONAL SURVEY ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	10,536 - 11,	,081	-	11,1	81 BBT:	SSLIC	KWATE	₹; 244	,774 LB	\$ 30/5	0 SAND							
☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☑ DIRECTIONAL SURVEY ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	Para de la composição d																	
☐ ELECTRICAL/MECHANICAL LOGS ☐ GEOLOGIC REPORT ☐ DST REPORT ☑ DIRECTIONAL SURVEY ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐ ☐	29. ENCLOSED AT	TACHMENTS:		-											30	. WELL	STATUS	
The control of the co							× = =					7 <u></u>					- 2.,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	
					CEMENT VE	ERIFICATIO				-					RVEY		PGW	/

(CONTINUED ON BACK)

31. INITIAL PRO	DUCTION				INT	ERVAL A (As sho	wn in item #26)					
DATE FIRST PRODUCED: TEST DATE: 8/18/2013				HOURS TESTED		TEST PRODUCTION	sc and a second	GAS - MCF:	WATER -		PROD. METHOD:	
				New York of State Control of the Con		24	RATES: →	16	1,268	584		FLOWS
20/64	TBG. PRES		338 A	PI GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL-BBL:	GAS - MCF: 1,268	WATER – 584		INTERVAL STATUS:
					INT	ERVAL B (As sho	wn in item #26)					
DATE FIRST PR	ODUCED:	TEST	DATE:		HOURS TESTED	D:	TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER -	BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRES	S. CSG. F	RESS. A	PI GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL – BBL:	GAS - MCF:	WATER -	BBL:	INTERVAL STATUS:
					INT	ERVAL C (As sho	wn in item #26)					
DATE FIRST PR	ODUCED:	TEST I	DATE:		HOURS TESTED);	TEST PRODUCTION RATES: →	OIL – BBL:	GAS - MCF:	WATER -	BBL:	PROD. METHOD:
CHOKE SIZE: TBG. PRESS.		S. CSG. F	RESS. A	PI GRAVITY	BTU – GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER -	BBL:	INTERVAL STATUS
					INT	ERVAL D (As sho	wn in item #26)			-		
DATE FIRST PR	ODUCED:	TEST	DATE:		HOURS TESTED):	TEST PRODUCTION RATES: →	OIL - BBL:	GAS - MCF:	WATER -	BBL:	PROD. METHOD:
CHOKE SIZE:	TBG. PRES	S. CSG. F	RESS. A	PI GRAVITY	BTU - GAS	GAS/OIL RATIO	24 HR PRODUCTION RATES: →	V OIL – BBL:	GAS - MCF:	WATER -	BBL:	INTERVAL STATUS
32. DISPOSITIO	N OF GAS (S	Sold, Used for	r Fuel, Vente	ed, Etc.)								
33. SUMMARY	OF POROUS	ZONES (Inclu	ıde Aquifers	=):			3	4. FORMATION	(Log) MARKERS:			
						n tests, including de	epth interval					
tested, cushion u	ised, time tool	open, flowing	and shut-in	pressures and r	recoveries.							
Formatio	n	Top (MD)	Bottor (MD)		Descript	tions, Contents, etc			Name		1)	Top Measured Depth)
								GREEN RI MAHOGAI WASATCH MESA VEF SEGO	NY MARKER I	₹		2,955 3,736 6,232 8,608 11,100
35. ADDITIONA	L REMARKS	(Include plug	ging proced	J dure)		a di Book						170
36. I hereby cer	tify that the f	oregoing and	attached in	formation is c	omplete and corre	ect as determined	from all available rec	ords.				CHARLES CONTRACTOR
NAME (PLEAS	E PRINT) B	BENNA N	/UTH		,		_ TITLE REG	SULATORY	' ASSISTAN	T - CON	ITRA	CT
SIGNATURE _	130	m	a m	Duti	<u> </u>			//2013				
drillin	leting or p g horizonta	lugging a r al laterals t	new well from an ex	/s of kisting well b g formation	oore •	significantly d	previously plugge leepening an exis carbon explorator	ting well bore	below the prev	rious botto	m-ho atigra	le depth bhic tests
* ITEM 20: SI	now the nu	umber of c	ompletion	s if producti	on is measure	d separately fr	rom two or more t	formations.				
	5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5	1720 F91	0	200 22 30 32	10 89 5	000 B 4 W D	ISS NO RECORDS A MARKET TO AND					

**ITEM 24: Cement Top - Show how reported top(s) of cement were determined (circulated (CIR), calculated (CAL), cement bond log (CBL), temperature survey (TS)).

Send to:

Utah Division of Oil, Gas and Mining 1594 West North Temple, Suite 1210

Box 145801

Salt Lake City, Utah 84114-5801

(5/2000)

Phone: 801-538-5340

Fax: 801-359-3940

API Well Number: 43047523120000



Daily Activity and Cost Summary

Well Name: RW 5C1-23B

API 43-047-523		Surface Legal Location 023007S023E27	Field Name RED WASH		State UTAH			Configuration Type tical
Ground Elevatio			rrent KB to GL (ft)	KB to CF (ft)	Security Company of the Company of t	Date		inal Rig Release
	5,625.3	5,625.30	22.80		22.80	9/12/2012 19	Control of the Contro	7/28/2013 18:00
Job Category DRILLING		Primary Job Type DRILLING		Secondary Job Type DEVELOPMEN		,	Objective	
Start Date		Districtivo		Job End Date				×
		4/20/2013				7/28/2	2013	
Purpose								
Summary								
Contractor	~		RIG		Rig Type			
SST Energy Contractor			SST 54		Rig Type			
SST Energy	<i>t</i>		SST 54		Trig Type			
DOL	Start Date				Summary			
1.0	8/7/2012	PRE-SPUD COSTS						
2.0	4/20/2013	SKID RIG, RIG UP AFTE	R SKID, WELD AN	ND NIPPLE UP	CONDUCT	TOR, DRILL 12 '	/4' HOLE	
3.0	4/21/2013	DRILL 12 1/4" HOLE, TR RIG SERVICE, DRILL	IP OUT CHANGE	BIT TO 9 5/8" II	NSTALL M	IWD, TRIP IN H	OLE, DRILL	. 9 5/8" SURFACE HOLE,
4.0	4/22/2013	RIG SERVICE, DRILL SU	RFACE, WIPER	TRIP @ 2500', I	ORILL			
5.0	4/23/2013	DRILL TO T.D. @ 3818', CIRCULATE AND MIX LO						
6.0	4/24/2013	WAIT ON CEMENT FRO TO SET, RUN 1" AND TO						
7.0	7/19/2013	SKID RIG, RIG UP, NIPP	LE UP BOP					
8.0	7/19/2013	NIPPLE UP BOP, TEST I TO TAG FLOAT COLLAR			WEAR BU	JSHING, PICK U	P DIRECTI	ONAL TOOLS, TRIP IN
9.0	7/20/2013	DRILL FROM 4286' TO 5	230', ROUTINE R	IG SERVICE, D	RILL FRO	M 5230' TO 636	3', SURVE	YS AND CONNECTIONS
10.0	7/21/2013	DRILL FROM 6363' TO 7 DRILL FROM 7118' TO 8		IG SERVICE, D	RILL FRO	M 7118' TO 730	7', CONNE	CTIONS AND SURVEY,
11.0	7/22/2013	DRILL FROM 8157' TO 8	535', ROUTINE R	IG SERVICE, D	RILL FRO	M 8535' TO 935	3', CONNE	CTIONS AND SURVEYS,
12.0	7/23/2013	DRILL FROM 9353' TO 9 MOTOR, TRIP IN HOLE	952', ROUTINE R	IG SERVICE, C	CIRCULAT	E FOR TRIP, TR	RIP OUT CH	HANGE BIT AND
13.0	7/24/2013	TRIP IN AND WASH TO	BOTTOM, DIREC	TIONAL DRILL,	RIG SERV	VICE.		
14.0	7/25/2013	DIRECTIONAL DRILL, C	RC. SHORT TRIP	TO 6500 FT.				
15.0	7/26/2013	TRIP OUT FOR LOGS, C DIPLOY LOGS, TRIP OU		IE, LAY DOWN	BHA, RIG	UP LOGGING I	BHA AND T	OOL, TRIP IN HOLE,
16.0	7/27/2013	TRIP OUT W / LOGGING	TOOL AND LAY	DOWN DP, RU	N CASING	, CEMENT CAS	ING	
17.0	7/28/2013	SET AND TEST PACKOR	FF FOR CASING,	NIPPLE DOWN	BOP, CLE	EAN MUD TANK	S.	
		Le l'annual de	me annersamment de la company		DECEMBER OF THE PERSON OF	The second district of		

QEP Energy Company Page 1/1 Report Printed: 8/19/2013

API Well Number: 43047523120000



DIRECTIONAL DRILLING SPECIALISTS

QEP Energy Services

Red Wash RW 23-23B Pad RW 5C1-23B

RW 5C1-23B

Design: RW 5C1-23B

Standard Survey Report

21 August, 2013





Native Navigation

Survey Report



Company: Project: Site:

QEP Energy Services Red Wash

RW 23-23B Pad Well: RW 5C1-23B Wellbore: RW 5C1-23B RW 5C1-23B Design:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method: Database:

Well RW 5C1-23B

RKB @ 5648.10usft (SST 54) RKB @ 5648.10usft (SST 54)

True

Minimum Curvature Compass DB Connection

Project

Map Zone:

Red Wash

Map System: Geo Datum:

US State Plane 1983

North American Datum 1983 Utah Central Zone

System Datum:

Mean Sea Level

Using geodetic scale factor

RW 23-23B Pad Site

Site Position: From: **Position Uncertainty:**

Мар

Northing: Easting: Slot Radius:

7,246,686.310 usft 2,256,158.369 usft 13-3/16 "

Latitude: Longitude: Grid Convergence:

40 193199 -109.295575 1.41 °

0.00 usft

40.192617

Well Well Position

Wellbore

Magnetics

RW 5C1-23B

+N/-S +E/-W 0.00 usft 0.00 usft 0.00 usft Northing: Easting: Wellhead Elevation:

4/10/2013

0.00

7,246,469.906 usft 2,255,980.282 usft 5,625.30 usft Latitude: Longitude: Ground Level:

-109.296231 5,625.30 usft

Position Uncertainty

RW 5C1-23B

Model Name

IGRF2010

Sample Date

Declination (°)

Dip Angle (°)

66.02

Field Strength

52,275

(nT)

Design

RW 5C1-23B

Inclination

(°)

0.00

0.00

0.53

0.62

0.53

1.50

1.40

0.10

0.50

Audit Notes:

Version:

1.0

Phase:

ACTUAL

+N/-S

(usft)

0.00

0.00

0.04

0.13

0.56

1.58

2.21

2.28

2.67

10.78

Tie On Depth:

0.00

Vertical Section:

Depth From (TVD) (usft)

+N/-S (usft) 0.00 +E/-W (usft) 0.00

Vertical

Section

(usft)

0.00

0.00

-0.46

-121

-1.25

0.34

2.47

3.46

3.40

Direction (°)

Build

Rate

(°/100usft)

0.00

0.00

0.44

0.10

-0.10

1.04

-0.11

-1 41

0.43

299.97

Sui	rvey Program		Dat
Edition 1	From	То	
1000	(usft)	(usft)	Surv

22.80

3,859.00

Measured

Depth

(usft)

RKB 143.00

0.00

22.80

235.00

601.00

693.00

ey (Wellbore)

Azimuth

(°)

0.00

0.00

86.20

82.90

331.23

302.10

270.00

20.00

39.50

Tool Name NN MWD

Description MWD - Standard

Survey

3,633.00 RW 5C1-23B Surface Svys (RW 5C1-23B 11,180.00 RW 5C1-23B Prod Surveys (RW 5C1-23B

Vertical

Depth

(usft)

0.00

22.80

143.00

234 99

325.99

418.98

508.95

600.94

692.94

8/21/2013

NN MWD

+E/-W

(usft)

0.00

0.00

0.55

1 47

1.76

0.52

-1.58

-2.67

-2.39

MWD - Standard

Dogleg

Rate

(°/100usft)

0.00

0.00

0.44

0.10

1.05

1.15

0.90

1.56

0.44

326.00 419.00 509.00

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21.20 COMPASS 5000.1 Build 58

Turn

Rate

(°/100usft)

0.00

0.00

0.00

-3.59

-122.71

-31.32

-35.67

119 57



Native Navigation

Survey Report



Company: Project: Site:

Well:

QEP Energy Services

Red Wash RW 23-23B Pad RW 5C1-23B RW 5C1-23B Wellbore:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well RW 5C1-23B

RKB @ 5648.10usft (SST 54)

RKB @ 5648.10usft (SST 54)

Minimum Curvature Compass DB Connection

ign:		5C1-23B 5C1-23B			Database:	liculation Weth		Compass DB C		
vey Meas Dep		Inclination	Azimuth	Vertical Depth	+N/-S	÷E/-W	Vertical Section	Dogleg Rate	Build Rate	Turn Rate
(us	ft)	(°)	(°)	(usft)	(usft)	(usft)	(usft)	(°/100usft)	(°/100usft)	(°/100usft)
5	783.00	1.90	300.00	782.92	3.72	-3.43	4.83	2.27	1.56	-110.56
8	874.00	3.80	298.50	873.80	5.91	-7.39	9.35	2.09	2.09	-1.65
Ç	966.00	4.90	303.60	965.54	9.54	-13.34	16.32	1.27	1.20	5.54
1,0	061.00	6.80	298.50	1,060.04	14.47	-21.66	25.99	2.07	2.00	-5.37
1,	156.00	9.10	305.20	1,154.12	21.48	-32.75	39.10	2.61	2.42	7.05
1,2	251.00	10.60	308.80	1,247.72	31.29	-45.70	55.22	1.71	1.58	3.79
1,3	347.00	12.80	310.40	1,341.72	43.72	-60.68	74.40	2.32	2.29	1.67
1,4	442.00	15.20	312.00	1,433.89	58.87	-77.95	96.94	2.56	2.53	1.68
	538.00	16.30	309.30	1,526.29	75.83	-97.73	122.54	1.38	1.15	-2.81
	633.00	17.50	308.40	1,617.18	93.14	-119.24	149.82	1.29	1.26	-0.95
	729.00	18.30	308.20	1,708.54	111.43	-142.40	179.02	0.84	0.83	-0.21
1.0	824.00	17.60	305.70	1,798.91	129.03	-165.78	208.07	1.10	-0.74	-2.63
	919.00	19.80	304.90	1,888.89	146.62	-190.64	238.40	2.33	2.32	-0.84
	015.00	21.40	303.20	1,978.75	165.52	-218.64	272.08	1.78	1.67	-1.77
	110.00	22.70	305.40	2,066.80	185.63	-248.08	307.64	1.62	1.37	2.32
	205.00	22.00	308.70	2,154.67	207.37	-276.91	343.48	1.51	-0.74	3.47
۷,۰	200.00	22.00	300.70	2,134.07	207.57	-210.51	343.40	1.51	-0.74	3.47
2,	300.00	20.90	310.70	2,243.09	229.55	-303.65	377.71	1.39	-1.16	2.11
2,	396.00	20.80	311.50	2,332.80	252.01	-329.40	411.24	0.31	-0.10	0.83
2,	491.00	20.50	310.30	2,421.70	273.95	-354.72	444.13	0.55	-0.32	-1.26
2,	585.00	19.40	308.50	2,510.06	294.31	-379.49	475.76	1.34	-1.17	-1.91
2,	680.00	19.00	309.30	2,599.77	313.93	-403.80	506.63	0.50	-0.42	0.84
2.	776.00	19.60	306.90	2,690.38	333.49	-428.77	538.03	1.04	0.63	-2.50
	871.00	20.00	304.90	2,779.76	352.36	-454.84	570.04	0.83	0.42	-2.11
	966.00	21.00	303.40	2,868.75	371.02	-482.38	603.21	1.19	1.05	-1.58
	061.00	22.90	307.10	2,956.86	391.55	-511.33	638.55	2.47	2.00	3.89
	156.00	25.50	312.40	3,043.52	416.49	-541.18	676.87	3.56	2.74	5.58
3	252.00	24.70	311.70	3,130.45	443.77	-571.42	716.69	0.89	-0.83	-0.73
	347.00	21.50	310.30	3,217.82	468.24	-599.52	753.26	3.42	-3.37	-1.47
	443.00	20.10	305.80	3,307.57	489.27	-626.32	786.98	2.21	-3.37 -1.46	-1.47 -4.69
	538.00	18.20	302.00	3,307.37	506.68	-626.32 -652.15	818.05	2.21	-1.46	-4.09 -4.00
			299.10	3,487.19						
3,	633.00	19.60	∠99.10	0,407.19	522.29	-678.65	848.81	1.77	1.47	-3.05
3,	859.00	20.90	291.20	3,699.26	555.32	-749.38	926.57	1.34	0.58	-3.50
3,	954.00	18.80	296.80	3,788.61	568.35	-778.84	958.61	2.98	-2.21	5.89
4,	048.00	18.20	301.40	3,877.76	582.83	-804.89	988.41	1.68	-0.64	4.89
4,	142.00	20.70	303.90	3,966.39	599.74	-831.22	1,019.67	2.80	2.66	2.66
	236.00	20.50	302.60	4,054.38	617.88	-858.87	1,052.68	0.53	-0.21	-1.38
4.	331.00	20.80	300.00	4,143.28	635.27	-887.50	1,086.17	1.02	0.32	-2.74
	425.00	22.10	300.00	4,230.77	652.46	-917.27	1,120.54	1.38	1.38	0.00
	520.00	23.60	298.60	4,318.31	670.50	-949.44	1,157.43	1.68	1.58	-1.47
	614.00	21.40	301.30	4,405.15	688.42	-980.62	1,193.39	2.59	-2.34	2.87
	708.00	16.20	299.60	4,494.11	703.82	-1,006.69	1,223.67	5.56	-5.53	-1.81
	802.00	13.80	295.00	4,584.90	715.03	-1,028.26	1,247.95	2.85	-2.55	-4.89
4,	897.00	13.10	292.40	4,677.30	723.92	-1,048.48	1,269.91	0.97	-0.74	-2.74

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COMPASS 5000.1 Build 58



Native Navigation

Survey Report



Company:

Wellbore:

QEP Energy Services

Project: Site: Well:

Red Wash RW 23-23B Pad RW 5C1-23B RW 5C1-23B

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method:

Well RW 5C1-23B

RKB @ 5648.10usft (SST 54) RKB @ 5648.10usft (SST 54)

True

Minimum Curvature Compass DB Connection

: RW	/ 5C1-23B			Database:			Compass DB C	Onnection	
Measured Depth (usft)	Inclination (°)	Azimuth (°)	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
4,991.00	9.60	286,90	4,769.45	730.26	-1,065.83	1,288.11	3.89	-3.72	-5.85
5,085.00	10.30	288.00	4,862.03	735.14	-1,081.33	1,303.97	0.77	0.74	1.17
5,180.00	9.50	306.40	4,955.64	742.42	-1,095.72	1,320.07	3,42	-0.84	19.37
5,274.00	11.40	309.60	5,048.08	752.94	-1,109.12	1,336.94	2.11	2.02	3.40
5,369.00	10.10	310.60	5,141.41	764.35	-1,122.68	1,354.39	1.38	-1.37	1.05
5,463.00	9.80	312.90	5,233.99	775.16	-1,134.80	1,370.28	0.53	-0.32	2.45
5,558.00	12.60	312.90	5,327.18	787.72	-1,148.31	1,388.27	2.95	2.95	0.00
5,652.00	9.70	308,80	5,419.39	799.66	-1,162.00	1,406.09	3.20	-3.09	-4.36
5,747.00	14.40	316,60	5,512.28	813.27	-1,176.36	1,425.33	5.22	4.95	8.21
5,841.00	14.90	311.50	5,603.23	829.77	-1,193.45	1,448.37	1.47	0.53	-5.43
5,936.00	13.80	309.00	5,695.26	845.00	-1,211.40	1,471.53	1.33	-1.16	-2.63
6,030.00	13.90	306.50	5,786.53	858.77	-1,229.19	1,493.82	0.65	0.11	-2.66
6,124.00	14.10	304.90	5,877.74	872.03	-1,247.66	1,516.44	0.46	0.21	-1.70
6,218.00	15.40	303.00	5,968.64	885.38	-1,267.51	1,540.31	1.48	1.38	-2.02
6,313.00	14.40	295.70	6,060.45	897.38	-1,288.74	1,564.69	2.24	-1.05	-7.68
6,407.00	14.30	295.20	6,151.52	907.39	-1,309.78	1,587.92	0.17	-0.11	-0.53
6,502.00	14.00	294.60	6,243.64	917.17	-1,330.84	1,611.05	0.35	-0.32	-0.63
6,596.00	14.40	294.70	6,334.76	926.79	-1,351.80	1,634.01	0.43	0.43	0.11
6,691.00	14.20	294.00	6,426.82	936.46	-1,373.17	1,657.36	0.28	-0.21	-0.74
6,785.00	13.50	292.30	6,518.09	945.31	-1,393.86	1,679.70	0.86	-0.74	-1.81
6,880.00	13.20	292.50	6,610.52	953.67	-1,414.14	1,701.45	0.32	-0.32	0.21
6,974.00	13.40	293.50	6,702.00	962.12	-1,434.04	1,722.91	0.32	0.21	1.06
7,068.00	13.60	292.10	6,793.40	970.62	-1,454.27	1,744.68	0.41	0.21	-1.49
7,163.00	13.00	290.50	6,885.85	978.57	-1,474.63	1,766.29	0.74	-0.63	-1.68
7,257.00	12.50	290.50	6,977.54	985.83	-1,494.06	1,786.75	0.53	-0.53	0.00
7,351.00	11.10	286.20	7,069.55	991.92	-1,512.28	1,805.57	1.76	-1.49	-4.57
7,446.00	11.00	294.50	7,162.79	998.23	-1,529.31	1,823.48	1.68	-0.11	8.74
7,540.00	10.50	295.10	7,255.14	1,005.58	-1,545.23	1,840.94	0.55	-0.53	0.64
7,634.00	9.40	293.20	7,347.73	1,012.24	-1,560.04	1,857.10	1.22	-1.17	-2.02
7,729.00	10.90	302.00	7,441.25	1,020.06	-1,574.79	1,873.78	2.27	1.58	9.26
7,823.00	9.00	300.50	7,533.83	1,028.50	-1,588.66	1,890.02	2.04	-2.02	-1.60
7,917.00	7.50	291.60	7,626.86	1,034.49	-1,600.70	1,903.44	2.09	-1.60	-9.47
8,012.00	8.50	282.70	7,720.93	1,038.32	-1,613.32	1,916.28	1.67	1.05	-9.37
8,107.00	8.30	291.80	7,814.92	1,042.41	-1,626.53	1,929.77	1.41	-0.21	9.58
8,202.00	6.90	299.00	7,909.08	1,047.72	-1,637.89	1,942.27	1.78	-1.47	7.58
8,296.00	7.00	302.40	8,002.39	1,053.53	-1,647.67	1,953.63	0.45	0.11	3.62
8,390.00	8.70	290.00	8,095.52	1,059.03	-1,659.19	1,966.36	2.54	1.81	-13.19
8,485.00	9.40	284.70	8,189.33	1,063.46	-1,673.44	1,980.92	1.15	0.74	-5.58
8,579.00	8.20	283.50	8,282.23	1,066.97	-1,687.39	1,994.76	1.29	-1.28	-1.28
8,673.00	10.20	285.00	8,375.01	1,070.69	-1,701.94	2,009.23	2.14	2.13	1.60
8,768.00	9.70	282.10	8,468.58	1,074.54	-1,717.89	2,024.97	0.74	-0.53	-3.05
8,863.00	8.90	281.00	8,562.33	1,077.62	-1,732.93	2,039.54	0.86	-0.84	-1.16
8,957.00	7.60	281.00	8,655.36	1,080.20	-1,746.17	2,052.29	1.38	-1.38	0.00

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COMPASS 5000.1 Build 58



RW 5C1-23B

Native Navigation

Survey Report



Company: Project:

Design:

QEP Energy Services

Red Wash Site: RW 23-23B Pad Well: RW 5C1-23B RW 5C1-23B Wellbore:

Local Co-ordinate Reference:

TVD Reference: MD Reference: North Reference:

Survey Calculation Method: Database:

Well RW 5C1-23B

RKB @ 5648.10usft (SST 54) RKB @ 5648.10usft (SST 54)

True

Minimum Curvature Compass DB Connection

Measured Depth (usft)	Inclination (°)	Azimuth	Vertical Depth (usft)	+N/-S (usft)	+E/-W (usft)	Vertical Section (usft)	Dogleg Rate (°/100usft)	Build Rate (°/100usft)	Turn Rate (°/100usft)
9,051.00	6.90	275.80	8,748.61	1,081.95	-1,757.89	2,063.32	1.02	-0.74	-5.53
9,146.00	6.70	273.30	8,842.94	1,082.85	-1,769.10	2,073.48	0.38	-0.21	-2.63
9,240.00	2.70	243.20	8,936.62	1,082.17	-1,776.56	2,079.60	4.86	-4.26	-32.02
9,335.00	1.40	191.70	9,031.56	1,080.02	-1,778.79	2,080.46	2.24	-1.37	-54.21
9,429.00	2.50	164.10	9,125.51	1,076.92	-1,778.46	2,078.63	1.51	1.17	-29.36
9,524.00	3.20	154.00	9,220.39	1,072.55	-1,776.73	2,074.95	0.90	0.74	-10.63
9,618.00	1.20	171.90	9,314.32	1,069.21	-1,775.44	2,072.16	2.22	-2.13	19.04
9,713.00	2.20	161.40	9,409.27	1,066.50	-1,774.72	2,070.18	1.10	1.05	-11.05
9,808.00	1.60	165.40	9,504.22	1,063.49	-1,773.81	2,067.89	0.65	-0.63	4.21
9,902.00	1.60	160.00	9,598.18	1,060.99	-1,773.03	2,065.96	0.16	0.00	-5.74
9,966.00	2.10	168.10	9,662.15	1,059.00	-1,772.48	2,064.49	0.88	0.78	12.66
10,061.00	2.20	165.60	9,757.08	1,055.53	-1,771.67	2,062.06	0.14	0.11	-2.63
10,155.00	2.60	166.60	9,851.00	1,051.71	-1,770.72	2,059.33	0.43	0.43	1.06
10,250.00	2.70	167.10	9,945.90	1,047.43	-1,769.73	2,056.33	0.11	0.11	0.53
10,344.00	2.60	167.00	10,039.80	1,043.20	-1,768.75	2,053.37	0.11	-0.11	-0.11
10,439.00	2.80	155.00	10,134.69	1,038.99	-1,767.29	2,050.00	0,63	0.21	-12.63
10,533.00	3.30	156.90	10,228.56	1,034.42	-1,765.25	2,045.96	0.54	0.53	2.02
10,627.00	3.00	148.30	10,322.42	1,029.84	-1,762.90	2,041.63	0.59	-0.32	-9.15
10,722.00	2.90	145.60	10,417.29	1,025.74	-1,760.24	2,037.28	0.18	-0.11	-2.84
10,816.00	2,80	136.10	10,511.18	1,022.13	-1,757.30	2,032.93	0.51	-0.11	-10.11
10,910.00	2.90	150.30	10,605.06	1,018.41	-1,754.53	2,028.67	0.76	0.11	15.11
11,005.00	3,25	146.60	10,699.93	1,014.07	-1,751.86	2,024.19	0.42	0.37	-3.89
11,099.00	3.10	139.00	10,793.78	1,009.93	-1,748.72	2,019.40	0.47	-0.16	-8.09
11,128.00	3.30	138.40	10,822.74	1,008.71	-1,747.65	2,017.87	0.70	0.69	-2.07
11,180.00	3.30	138,40	10,874.65	1,006.48	-1,745.67	2,015.03	0.00	0.00	0.00

Design Annota	Measured	Vertical	Local Coo	udinatas		
	Depth (usft)	Depth (usft)	+N/-S (usft)	+E/-W (usft)	Comment	
	22.80	22.80	0.00	0.00	RKB	
	11,180.00	10,874.65	1,006.48	-1,745.67	Proj @ TD	

Checked By:	Approved By:	Date:	3
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